LBT-D115CD

SERVICE MANUAL

AEP Model

- LBT-D115CD is composed of the following models.

A service manual is provided for each component model.
Refer to each manual for more details.

COMPONENT MODEL NAME FOR LBT-D115CD

	LBT-D115CD	
	AEP	Italian
Stereo deck receiver	HCD-D115	
Speakers	SS-A105	

COMPACT Hi-Fi STEREO SYSTEM

SONY®

MICROFILM

9-956-399-21

Sony Corporation
Audio Group

English
91F1648-1
Printed in Japan
©1991.6
Published by Customer Relations and Service Group

HCD-D115

SERVICE MANUAL

AEP Model

This set is the deck-receiver
and CD player section in LBT-D115CD.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⊡⊡ are trademarks of Dolby Laboratories Licensing Corporation.

Model Name Using Similar Mechanism	HST-D105
Tape Transport Mechanism Type	TCM-180VW-H4
Model Name Using Similar Mechanism	CDP-M11/M12/M21/M41
CD Mechanism Type	CDM14-5BD1
Base Unit Name	BU-5BD1

SPECIFICATIONS

Tuner

System: FM stereo; FM/AM superheterodyne tuner

FM tuner section
- Tuning range: 87.5 to 108 MHz
- Antenna: 75 ohms unbalanced; 300 ohms balanced
- Intermediate frequency: 10.7 MHz

AM tuner section
- Tuning range
  - AEP model MW: 531 to 1,602kHz
  - Italian model MW: 522 to 1,611kHz
  - AEP model LW: 153 to 279kHz
  - Italian model LW: 144 to 288kHz
- Antenna: AM loop antenna; External antenna terminal
- Intermediate frequency: 450 kHz

Amplifier

Peak music power output 400 W (6 ohms)
Continuous RMS power output
28 W + 28 W (6 ohms, at 1 kHz, 5% THD)

Input	Jack type	Sensitivity	Impedance
PHONO	Phono	3 mV	47 kohms
MICROPHONE	Phone	1 mV	10 kohms

Output	Jack type	Impedance
SURROUND SPEAKER	Phono	Accepts speakers of 8 to 16 ohms
HEADPHONES	Stereophone	Accepts headphones of 8 ohms or more

Frequency response: 15 Hz to 50 kHz $^{+0}_{-3}$ dB

Cassette deck

Recording system: 4-track 2-channel stereo
Frequency response: With Type II cassette (Sony UX-S) 40 Hz to 14 kHz (±3 dB); With Type I cassette (Sony HF-S) 40 Hz to 13 kHz (±3 dB)
Wow and flutter: ±0.1% (WRMS)

– Continued on next page –

MICROFILM

COMPACT HI-FI STEREO SYSTEM

SONY®

Compact disc player

Frequency response	2 Hz to 20 kHz ± 1.0 dB
Signal to noise ratio	More than 93 dB
Dynamic range	More than 90 dB
Harmonic distortion	Less than 0.008 % (1 kHz)
Channel separation	More than 90 dB (1 kHz)

General

Power requirements	220-230V AC, 50/60Hz
Power consumption	70W
Weight	Approx. 8.5 kg
Dimensions	Approx. 355 × 377 × 320 mm (w/h/d, including projections)

Supplied accessories

Remote commander RM-S130 (1)
FM wire antenna (1)
AM loop antenna (1)
Batteries Sony SUM-3 (NS) (2)
ANTENNA(Italian)

Design and specifications subject to change without notice.

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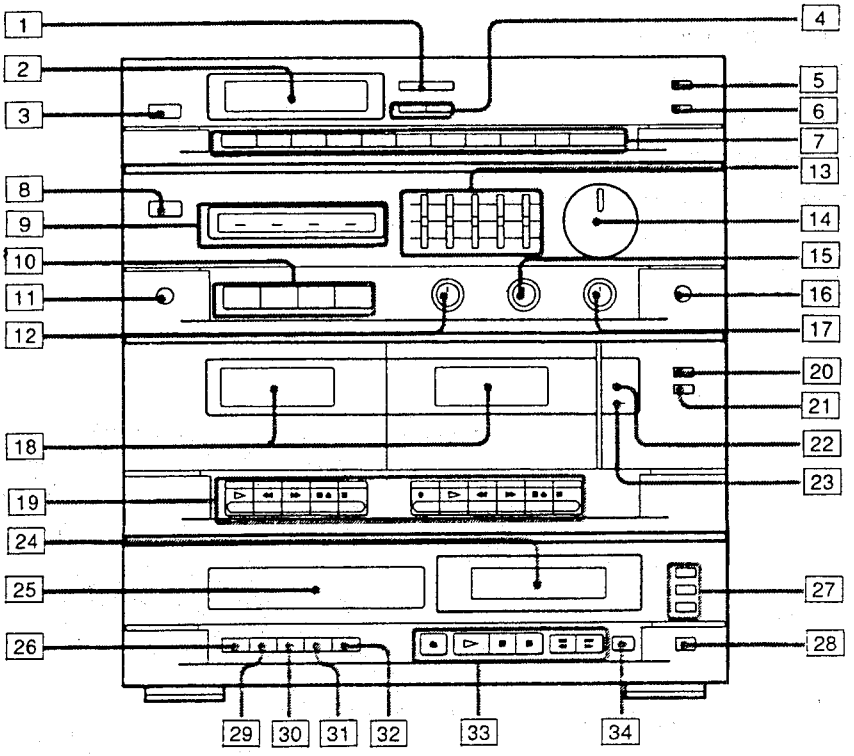
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

This section is extracted from instruction manual.

LOCATION OF CONTROLS



Tuner

1 BAND SELECTOR
2 Display window
3 Remote sensor
4 DUAL MODE TUNING buttons
5 MEMORY button
6 ST/MUTE button
7 Buttons for storing station frequencies

Amplifier

8 POWER switch
9 Function indicators
10 Function selectors
11 HEADPHONES jack
12 SURROUND control
13 GRAPHIC EQUALIZER controls
14 VOLUME control
15 DBFB (dynamic bass feedback) control
16 MICROPHONE jack
17 BALANCE control

Cassette deck

18 Cassette holders
19 Tape operation buttons
◀◀ Leftward fast winding, ▶▶ Rightward fast winding,
▶ Forward play, ■ ⏏ Stop/eject, ❚❚ PAUSE, ● REC
(deck B only)
20 TAPE SELECTOR
21 DUBBING SPEED selector
22 HIGH SPEED DUBBING indicator
23 RECORD indicator

Compact disc player

24 Display window
25 Disc tray
26 TIME button
27 PLAY MODE buttons
PROGRAM button
SHUFFLE button
CONTINUE button
28 MUSIC SCAN button
29 REPEAT button
30 FADER button
31 CHECK (program check) button
32 CLEAR (program clear) button
33 CD player operation buttons
⏮ ◀◀/▶▶ ⏭ (AMS*/manual search) buttons
■ (stop) button
❚❚ (pause) button
▶ (play) button
⏏ button
34 EDIT/T.FADE button

* AMS is an abbreviation of Automatic Music Sensor.

SECTION 2
DISASSEMBLY OF BASE UNIT

Note :

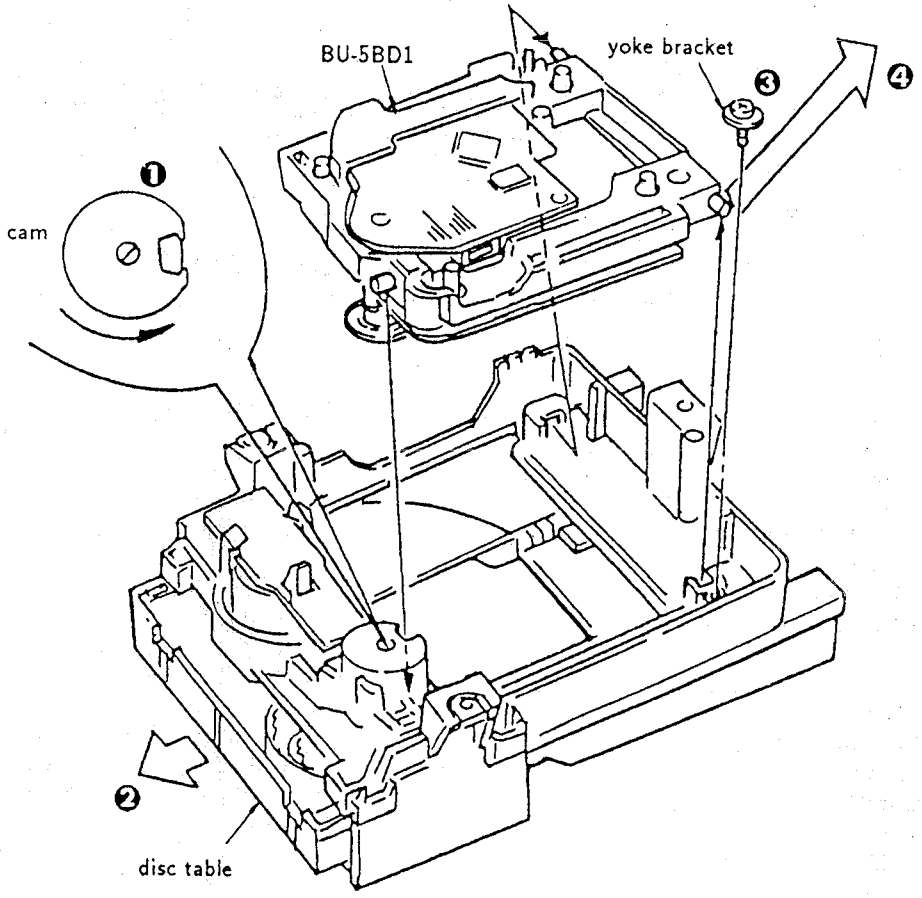
Follow the disassembly procedure in the nomerical order given.

❶ Turn the cam to the direction of arrow (Counter clock wise) by minus screw driver.

❷ Take off the disc table.

❸ Remove the yoke bracket.

❹ Remove the MD (BU-5BD1) to the direction of arrow.



SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

1. Clean the following parts with a denatured alcohol-moistened swab:
   record/playback heads — pinch rollers
   erase heads — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	30—70g•cm (0.42—0.97oz•inch)
FWD Back tension	CQ-102C	1.5—5.5g•cm (0.020—0.076oz•inch)
FF. REW	CQ-201B	63g•cm or more (0.87oz•inch)

3-2. ELECTRICAL ADJUSTMENTS

0dB=0.775V (AF)
0dB=0.1μV (RF)

CASSETTE DECK SECTION

1. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.

• Switches and controls should be set as follows unless otherwise specified.
DOLBY NR switch: OFF
TAPE SELECT switch: TYPE I

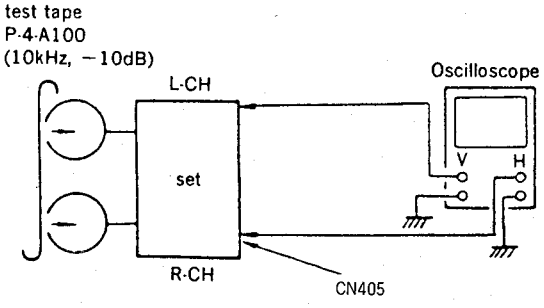
Type	Signal	Used for
P-4-A100	6.3kHz, −10dB	Azimath Adjustment
P-4-L300	315Hz, 0dB	PB Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment

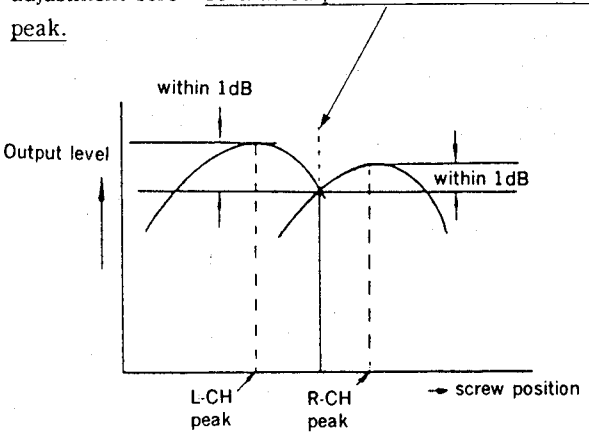
Note: Perform this adjustments for both decks.

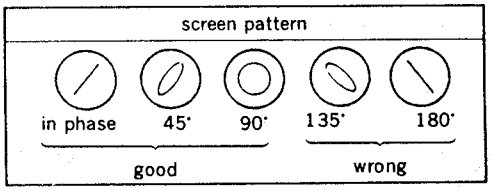
Procedure:

1. Mode: FWD playback



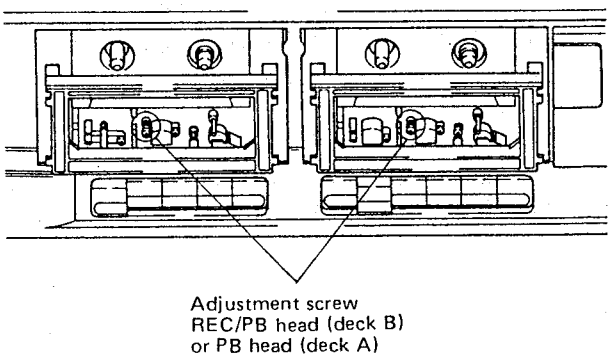
2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.





3. After the adjustments, apply suitable locking compound to the parts adjusted.

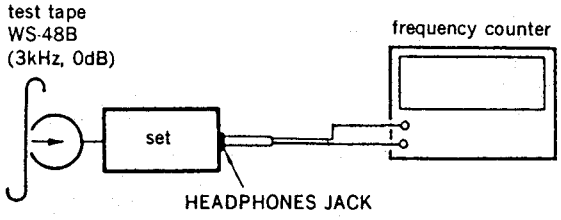
Adjustment Location:



Tape Speed Adjustment

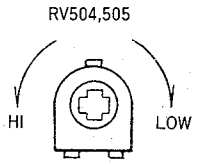
Procedure :

Mode : playback



- High speed adjustment
  1. Short pin CN407. Then at HIGH speed mode.
  2. Adjust RV504 so that the frequency counter reads 6000 ± 20 Hz.
     (Must be first Adjustment B deck)
- NORMAL speed adjustment
  1. Remove the short pin from CN407. Then at NORMAL speed mode.
  2. Adjust RV505 so that the frequency counter reads 3000 ± 10 Hz.

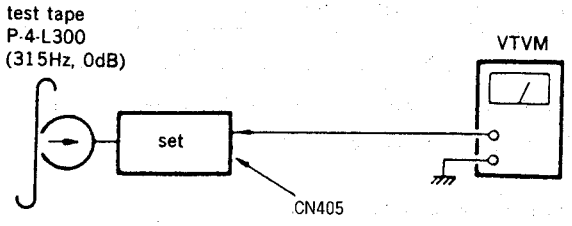
Adjustment Location: TC MAIN board



Playback Level Adjustment

Procedure :

Mode : FWD playback



DECK-A side RV400(L-CH), RV500(R-CH)
DECK-B side RV401(L-CH), RV501(R-CH)
so that the limits below are satisfied.

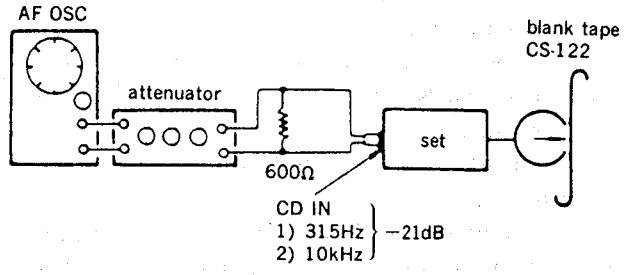
Adjustable limits :

CN405 level: −2.7dBs ± 0.5
level difference between the channels : within 1.0dB
(See page 6 for Adjustment Location)

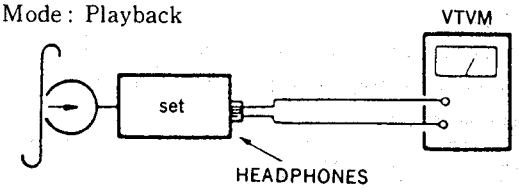
Record BIAS Current Adjustment

Procedure :

1. Mode : record



2. Mode : Playback



(1) Supply a −21dB signal (315Hz) from the CD IN. Adjust the VOLUME control so that a −30dB signal is output to the headphones terminal.
(2) Insert alignment tape CS-122 into deck B and put the set into the REC mode.
(3) Adjust the signal frequency to 10kHz.
(4) Put the set into the PB mode and adjust RV403 (L CH) and RV503 (R CH) in the REC mode so that the level difference between 315Hz and 10kHz is within 0 ± 0.5dB.
(5) Repeatedly put the set into the REC and PB modes two to four times and adjust the bias.

Adjustable limits :

The HEADPHONES level of 10kHz signal relative to that of 315Hz : 0dB ± 0.5dB

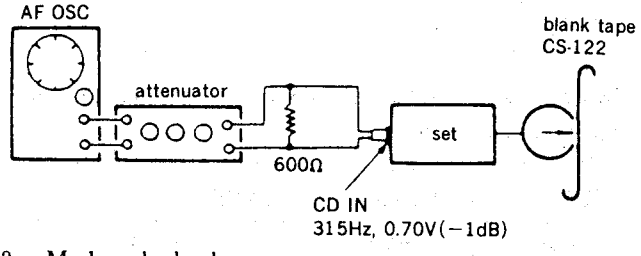
Record Level Adjustment

Setting :

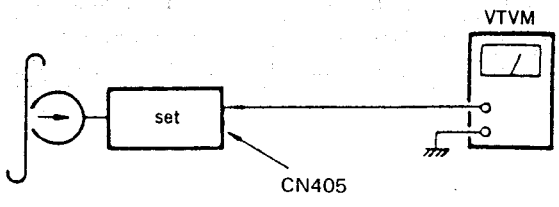
TAPE SELECT : TYPE I

Procedure :

1. Mode : record



2. Mode : playback



(1) Supply a −22.7dB signal (315Hz) from the CD terminal.
(2) Insert alignment tape CS-122 into deck B and record the signal. Then playback the recorded portion of the tape and adjust RV402 (L-CH) and RV502 (R-CH) so that the −25.0dB signal output is obtained at TP1 terminal.

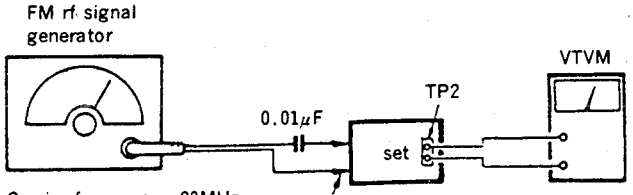
Adjustable limits :

HEADPHONES level : −25.0dB+0.5dB

TUNER SECTION

As FM FRONT-END FE301 is difficult to repair if faulty, replace it with new one.

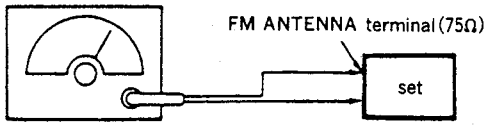
FM NULL Adjustment



Procedure :

1. Tune the set to 98 MHz.
2. Adjust T301 for 0V reading on the VTVM.

FM Tuned Level Adjustment

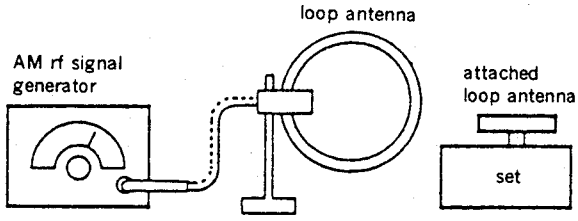


Carrier frequency : 98MHz
Output level : 0.018mV(25dBμ)
Modulation : 1kHz, 75kHz deviation

Procedure :

1. Tune the set to 98 MHz.
2. Adjust RV302 to the point where "TUNED" sign on FL601 just turns light.

• AM SECTION



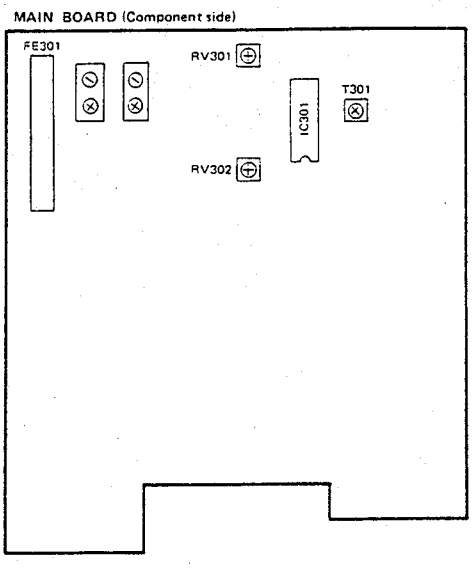
Carrier frequency : 216kHz
Modulation : 400Hz, 30% modulation

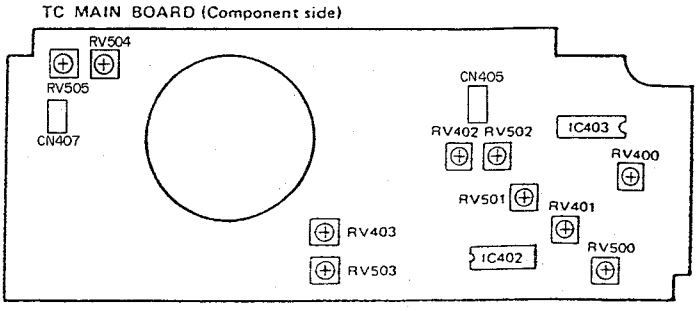
AM Tuned Level Adjustment

• AM BAND

1. Set loop antenna input level to 2.5mV (50 dBμ/m) and no signal tuned light should not on.
2. Tune the set to 1490kHz.
3. Adjust RV301 to the point where "TUNED" sign on FL601 just turns light.

Adjustment Location :





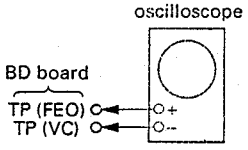
3-3. ELECTRICAL BLOCK CHECKING

CD SECTION

Note :

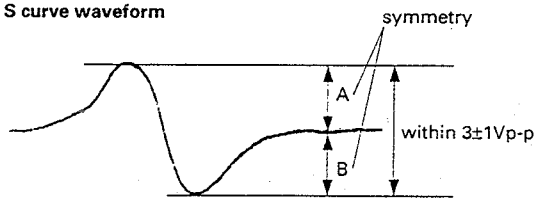
1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check



Procedure :

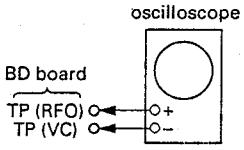
1. Connect oscilloscope to test point TP (FEO) on BD board.
2. Connect between test point TP (FES) and TP (VC) by lead wire.
3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within 3±1Vp-p.



5. After check, remove the lead wire connected in step 2.

Note : • Try to measure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.
• Take sweep time as long as possible and light up the brightness to obtain best waveform.

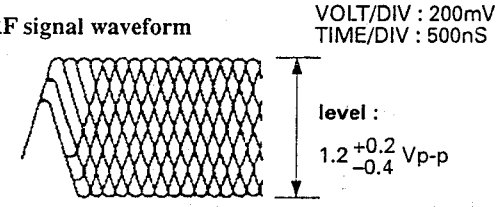
RF Level Check



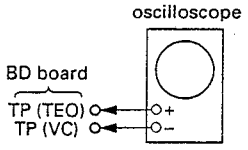
Procedure :

1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note :
Clear RF signal waveform means that the shape " ◊ " can be clearly distinguished at the center of the waveform.

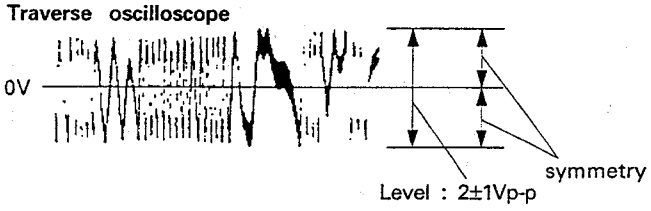


E-F Balance Check



Procedure :

1. Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire.
2. Connect oscilloscope to test point TP (TEO) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

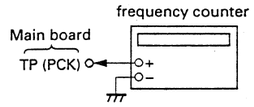


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

1. Connect frequency counter to test point (PCK) with lead wire.

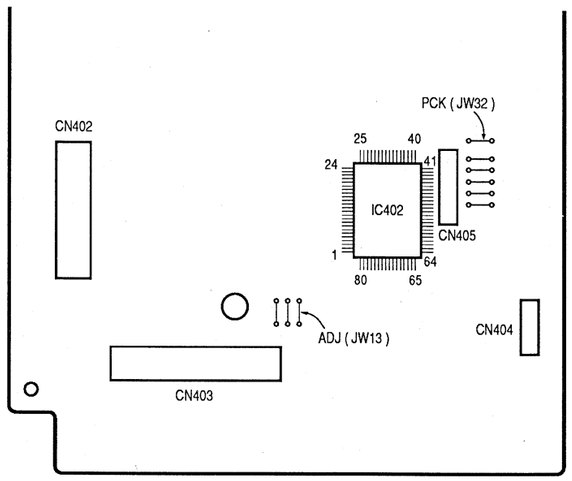


2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4.3218MHz.

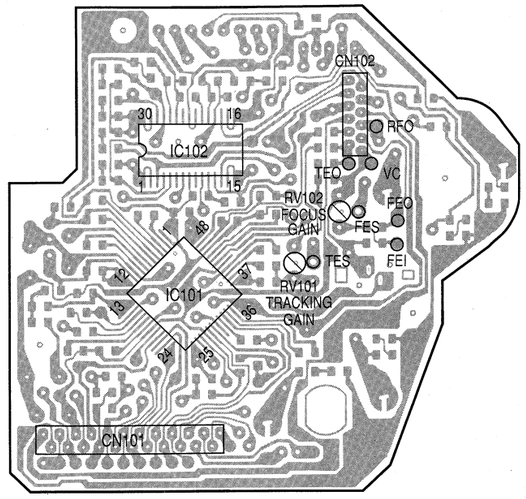
Focus/Tracking Gain

This gain has a margin, so even if it is slightly off.
There is no problem.
Therefore, do not perform, this adjustment.
Please note that it should be fixed to mechanical center position when you moved and do not know original position.

[CD MAIN BOARD] – Component Side –



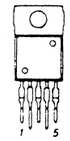
[BD BOARD] – Conductor Side –



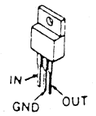
SECTION 4
DIAGRAMS

4-1. SEMICONDUCTOR LEAD LAYOUTS

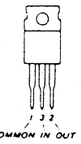
L78MR06



M5F7805
M5F7807
M5F7812

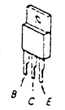


M5F7907



DTA114ES
DTA124ES
DTC114ES
DTC124ES
2SC2669-OY
2SC3622A-LK

2SB094-L
2SD2012



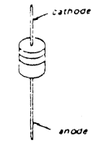
2S

2SC3112-B

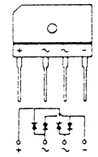
2SK246GR3

UZP-5.6B
UZ-3.9BSB

1N4148M
11ES2
HZS30-1L
UZL-33L

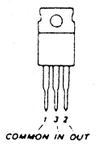
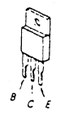
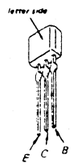


RBA-402

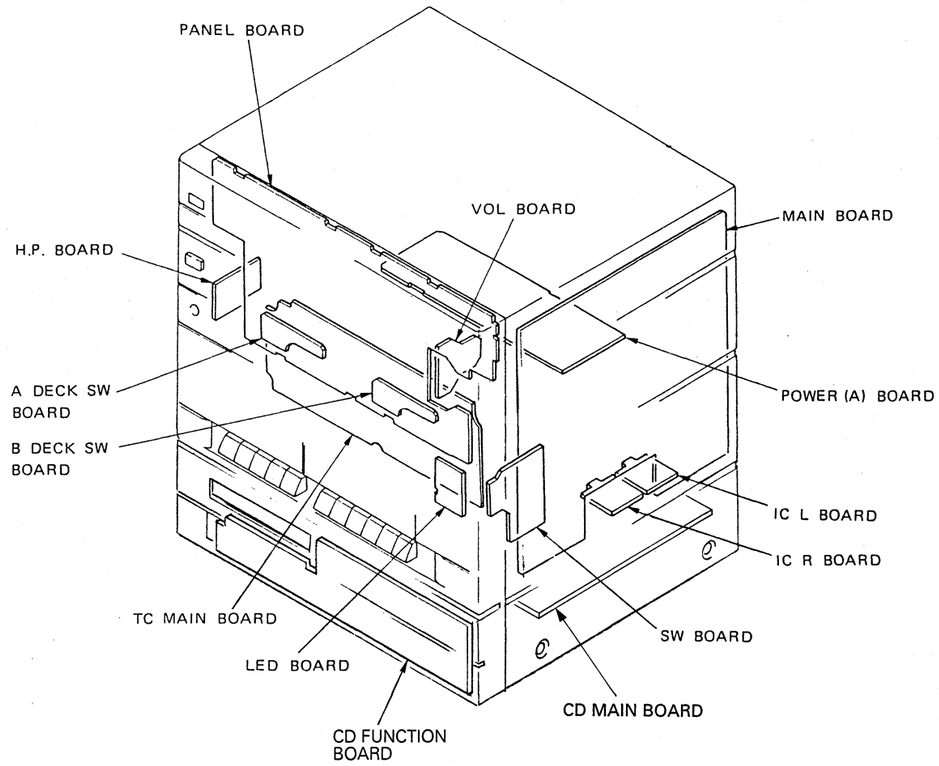


SECTION 4
DIAGRAMS

R LEAD LAYOUTS

805 807 812	M5F7907	DTA114ES DTA124ES DTC114ES DTC124ES 2SC2669-OY 2SC3622A-LK	2SB094-L 2SD2012	2SC2785-HFE
OUT				
6GR3	UZP-5.6B UZ-3.9BSB	1N4148M 11ES2 HZS30-1L UZL-33L	RBA-402	SEL2210SC
D				

4-2. CIRCUIT BOARDS LOCATION

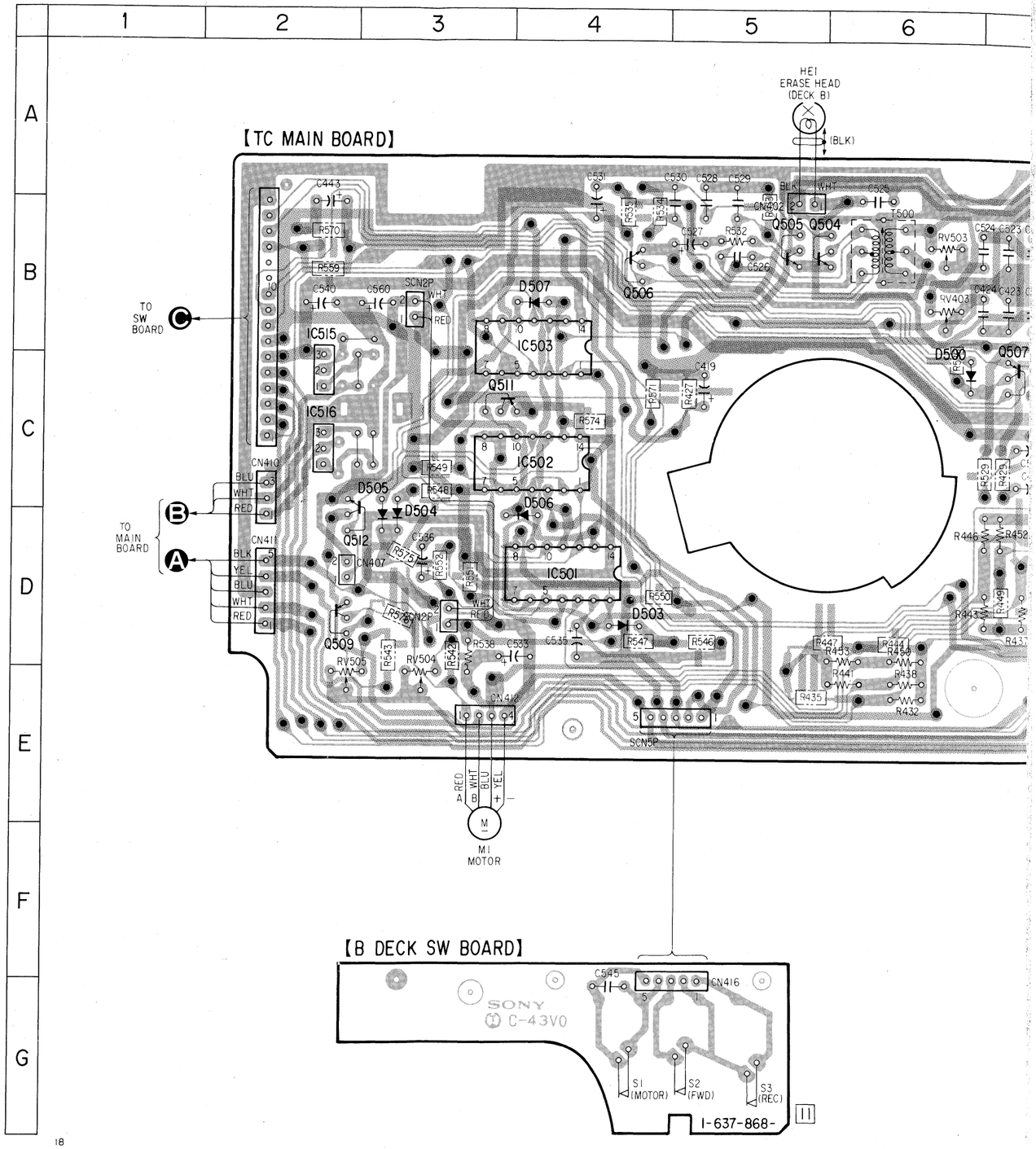


● Semiconductor Location

Ref. No.	Location
D500	C-6
D501	C-7
D502	B-7
D503	D-4
D504	C-3
D505	C-3
D506	C-3
D507	B-4
IC400	B-11
IC401	B-9
IC402	B-9
IC403	D-10
IC404	D-3
IC501	C-3
IC502	B-3
IC503	B-3
IC515	C-2
IC516	C-2
Q400	D-11
Q401	C-10
Q402	D-8
Q403	C-8
Q500	D-11
Q502	D-8
Q503	C-8
Q504	B-5
Q505	B-5
Q506	B-4
Q507	C-7
Q508	B-7
Q511	C-3

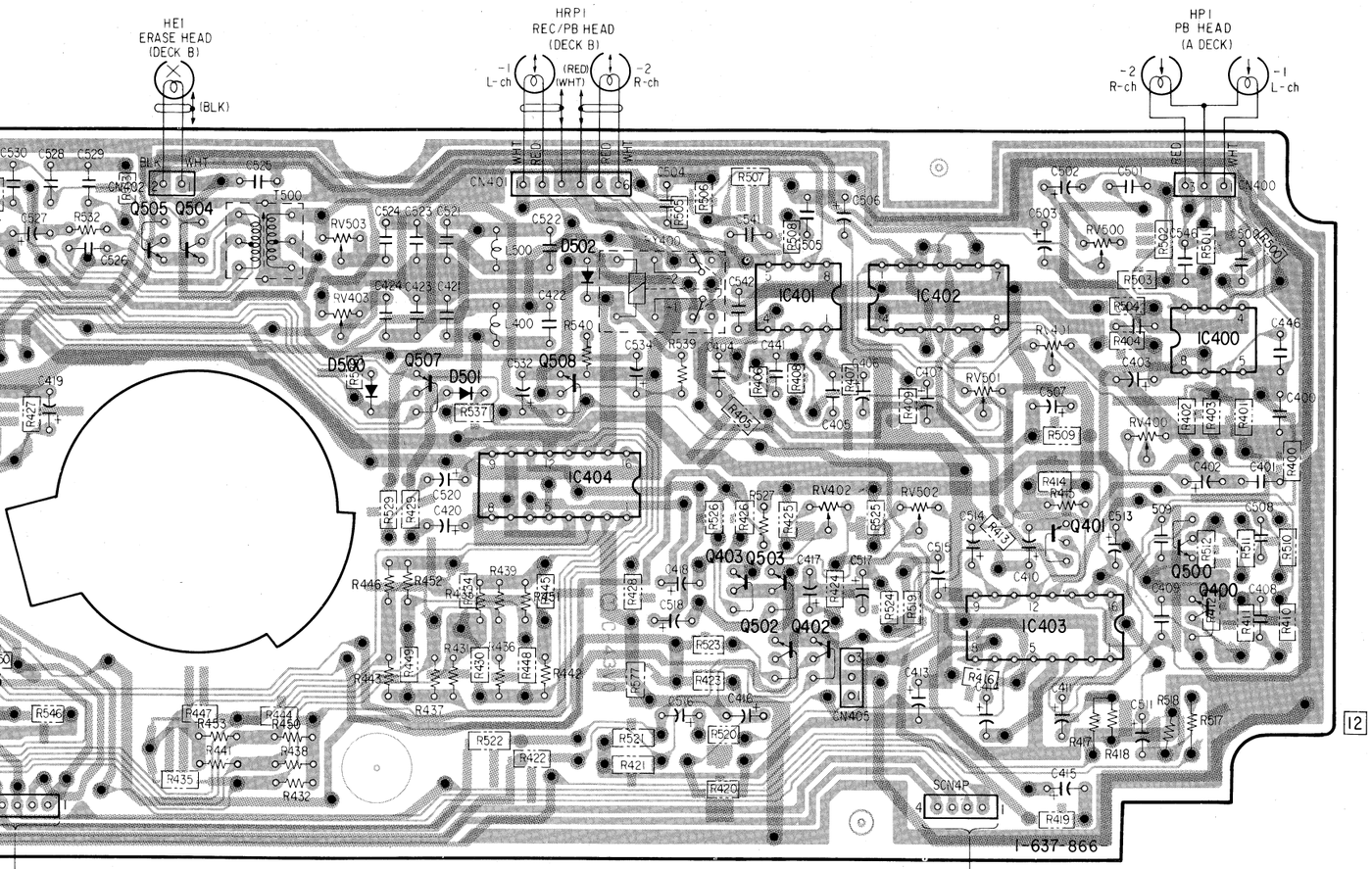
Note:
- ○—— : parts extracted from the component side.
- ● : Through hole.
- ▒▒ : Pattern on the side which is seen.
- ▒▒ : Pattern of the rear side.
- [ ] : Printed resistor from the rear side.

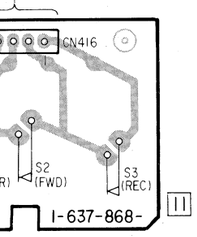
4-3. PRINTED WIRING BOARDS —TC Section— • Refer to page 10,11 for Semiconductor Lead Layouts and Circui



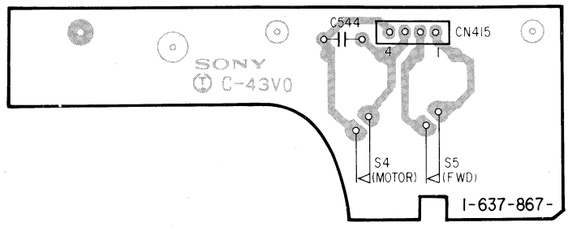
11 for Semiconductor Lead Layouts and Circuit Boards Location.

5	6	7	8	9	10	11	12



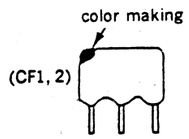


【A DECK SW BOARD】



Note on Ceramic Filter (C1, 2) Replacement. ~

This set employs two ceramic filters (CF1, 2) which should have the same color marking to identify their center frequency Therefore FM IF offset adjustment by jumpers (* A, * B) is necessary to match the center frequency of the ceramic filters used with FM intermediate frequency.



○: Connected
×: not Connected

Ceramic filter		Mount		FM intermediate fequency (MHz)
Color mark	Center frequency (MHz)	IF-50K * B	IF+50K * A	
white	10.750	×	○	10.750
Red	10.700	×	×	10.700
Black	10.650	○	×	10.650

FM intermediate frequency is determined by the three types as shown above. Ceramic filters of same center frequency, i. e. of same color coding, should be used for CF1 and CF2.

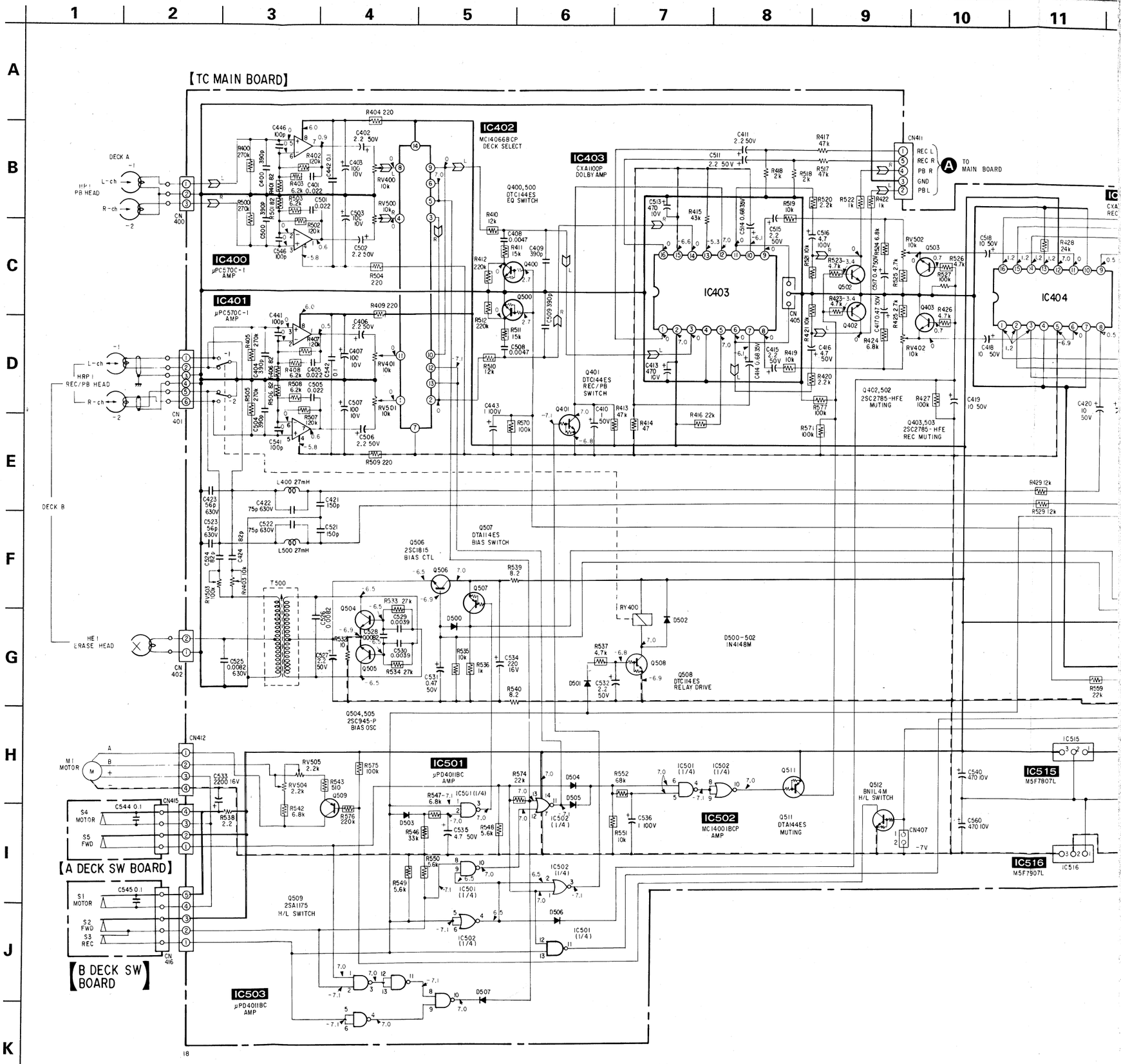
When replacing the ceramic filters, perform the FM Di-scriminator Adjustment.

Note:

- **All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics and tantalums.**
- **All resistors are in ohms, 1/4W or less unless otherwise noted.**
- **△ : internal component.**
- **▭ : indicate a permissible margin.**
- ▭ : printed resistor.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- ▬▬ : B + Line.
- ▬ ▬ ▬ : B – Line.
- Voltages are DC between measurement points and ground under no-signal (STOP) conditions.
- no make : FM
- Voltages are taken with a VOM (input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path
  ⇨ : FM ⇨ : PB (DECK A)
  IT : Italian



IC402
MC14066BCP
DECK SELECT

IC403
CXA1100P
DOLBY AMP

IC404
CXA1198AP
REC EQ AMP

IC515
M5F7807L

IC516
M5F7907L

IC502
MC14001BCP
AMP

Q400,500
DTC144ES
EQ SWITCH

Q401
DTC144ES
REC/PB
SWITCH

Q507
DTA114ES
BIAS SWITCH

Q508
DTC114ES
RELAY DRIVE

Q511
DTA144ES
MUTING

Q512
BNIL4M
H/L SWITCH

Q402,502
2SC2785-HFE
MUTING

Q403,503
2SC2785-HFE
REC MUTING

Q501
DTC144ES
EQ SWITCH

CN411
REC L
REC R
PB R
GND
PB L
A TO MAIN BOARD

【LED BOARD (1/2)】

D702 (RECORD)

S701 (1/3)
TAPE SELECTOR
TYPE I → TYPE II
(120Ω) (70Ω)

S701 (1/3)
DOLBY NR
OFF → ON

S701 (1/3)
DUBBING SPEED
NORMAL → HIGH

D701 HIGH SPEED

【SW BOARD】

【LED BOARD (1/2)】

B TO MAIN BOARD

CN410

CN407

D500-502
1N4148M

RY400

D501 D502 D504 D505 D506 D507

【MAIN BOARD (1/2)】

CN1204

A TO PANEL BOARD
R-PANEL.IN
GND
L-PANEL.IN
FUNCTION.A
-30V
FUNCTION.B
FILAMENT
+5V
FILAMENT
-7V
SIRCS
+7V
CD.DEATH
RELAY.OUT

G TO VOL BOARD

IC1001
PHONO AMP
M5218AP

IC1002
FUNCTION SELECT
MC14052

IC1003
REC AMP
M5218AP

CN1002
PHONO

C TO MAIN BOARD
ST
TC

A TO TC MAIN BOARD
CN1212

REC OUT

Q1034 Q1035
BA1332 MUTE

N0732
SIRCS
F.F
F.30V
SW
F TO CD MAIN BOARD

CN1225
MUTE
L-CD.OUT
GND
R-CD.OUT
-10V
+10V
GND
E TO CD MAIN BOARD

AIN BOARD (1/2)

【IC L BOARD】

【IC R BOARD】

IC1201 POWER AMP

IC1251 POWER AMP

【H.P BOARD】

HEAD PHONES

SPEAKER

SURROUND SPEAKER

【POWER (A) BOARD】

IC1001 PHONO AMP

IC1002 FUNCTION SELECT

IC1003 REC AMP

IC1303 REG

IC1304 REG

IC1305 REG

PHONO

ST

TC

OUT

TO VOL BOARD

TO MAIN BOARD (1/2)

TO DECK CN411

TO CD MAIN BOARD

POWER ON/OFF

AC

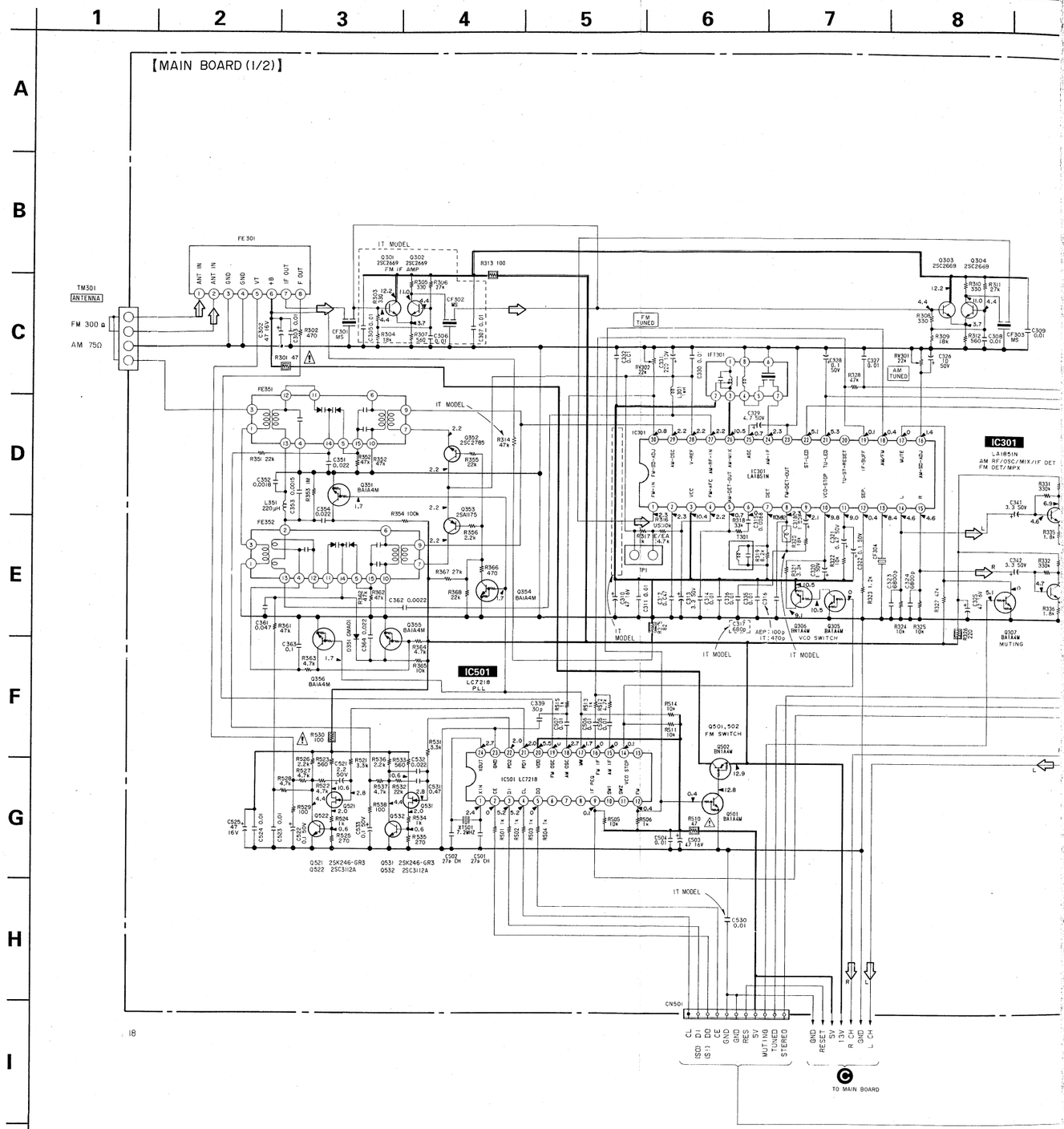
4-5. SCHEMATIC DIAGRAM —MAIN Section—

Note:

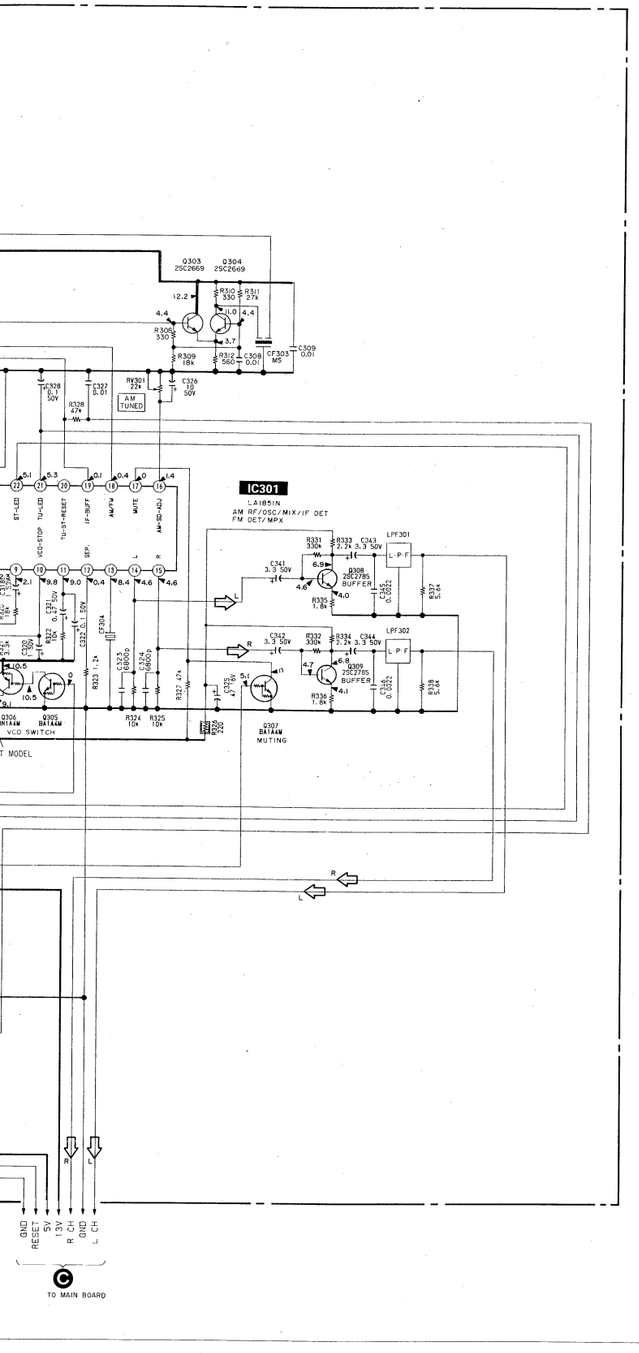
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- FW : nonflammable resistor.

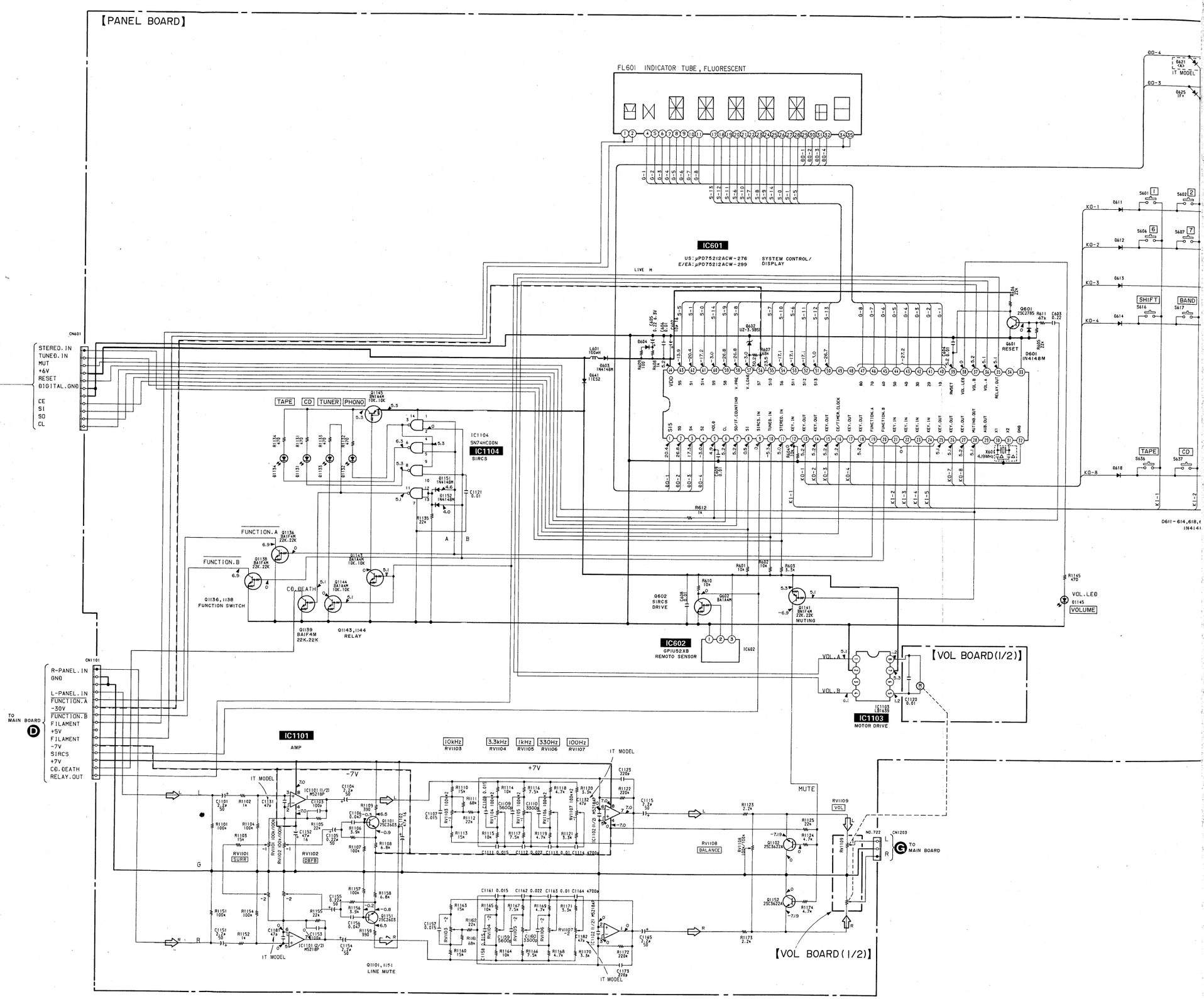
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

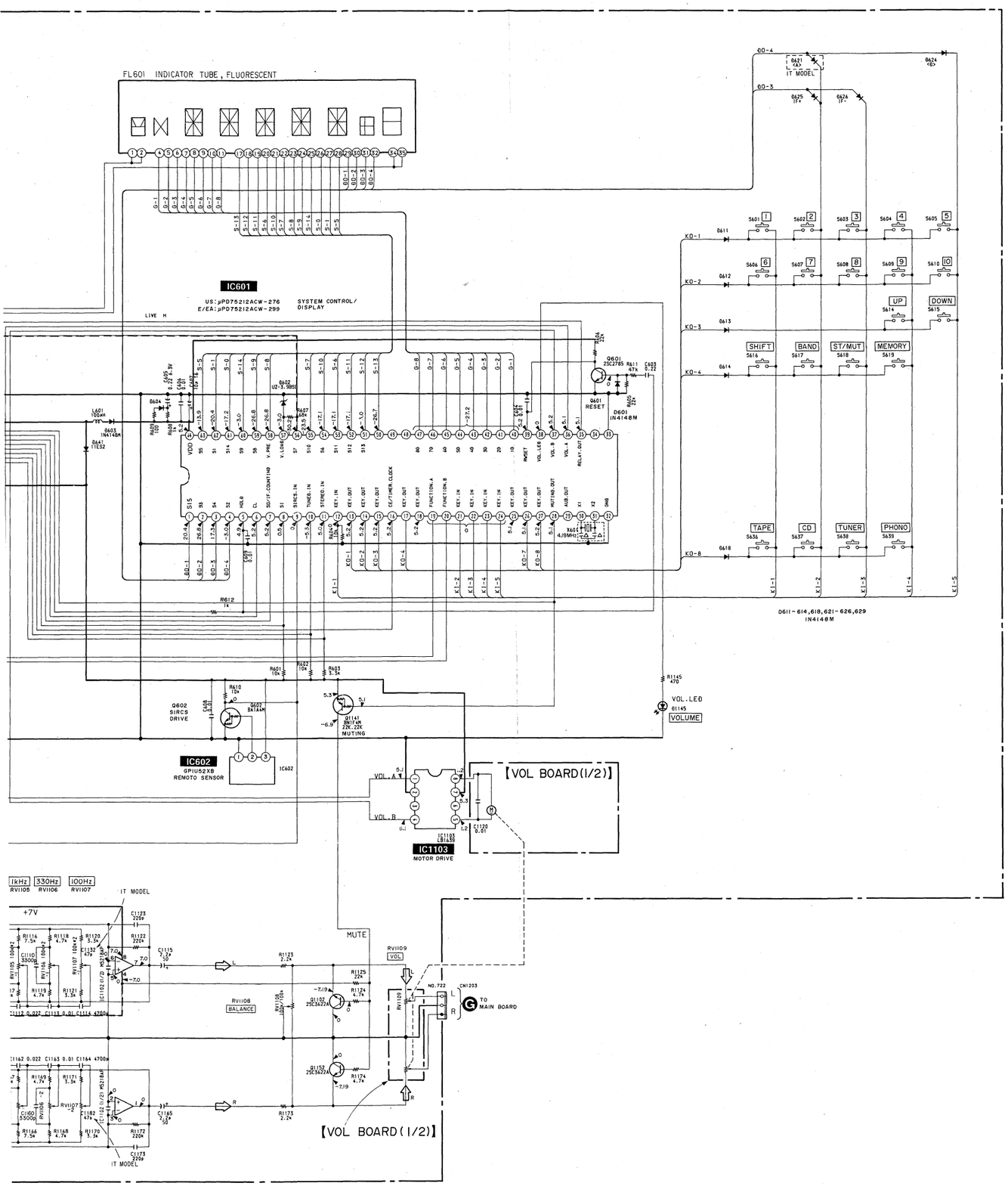
- ▬▬ : B+ Line
- ▬ ▬ : B– Line
- Voltage is dc with respect to ground under no-signal (detuned) conditions. no mark : FM
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  IT : Italian



【PANEL BOARD】


IC301
LA1851N
AM RF/OSC/MIX/IF DET
FM DET/MPX
Q303 2SC2669
Q304 2SC2669
AM TUNED
LPF301
LPF302
Q308 2SC2785 BUFFER
Q309 2SC2785 BUFFER
Q306 BA714W VCO SWITCH
Q307 BA714W MUTING
T MODEL
GND
RESET
5V
FM CH
AM CH
GND
L CH
TO MAIN BOARD


FL601 INDICATOR TUBE, FLUORESCENT
IC601
US:μPD75212ACW-276
E/EA:μPD75212ACW-299
SYSTEM CONTROL/ DISPLAY
LIVE M
Q601 2SC2785
Q602 SIRCS DRIVE
Q601 RESET
D601 IN4148M
X601 4.19MHz
IC1104 SN74HC00N
IC1104 SIRCS
TAPE
CD
TUNER
PHONO
FUNCTION.A
FUNCTION.B
Q1136,1138 FUNCTION SWITCH
CD.DEATH
Q1139 BA1F4M 22K.22K
Q1143,1144 RELAY
IC602 GP1U52XB REMOTO SENSOR
VOL.A
VOL.B
IC1103 LB1630
IC1103 MOTOR DRIVE
【VOL BOARD(1/2)】
VOL.LED
Q1145
VOLUME
SHIFT
BAND
TAPE
CD
CN401
STEREO.IN
TUNED.IN
MUT
+6V
RESET
DIGITAL.GND
CE
SI
SO
CL
CN1101
R-PANEL.IN
GND
L-PANEL.IN
FUNCTION.A
-30V
FUNCTION.B
FILAMENT
+5V
FILAMENT
-7V
SIRCS
+7V
CD.DEATH
RELAY.OUT
TO MAIN BOARD
IC1101
AMP
IT MODEL
-7V
+7V
10kHz RVII03
3.3kHz RVII04
1kHz RVII05
330Hz RVII06
100Hz RVII07
RVII01 SURR
RVII02 DBFB
Q1101,1151 LINE MUTE
MUTE
RVII08 BALANCE
RVII09 VOL
CN1203
TO MAIN BOARD
【VOL BOARD(1/2)】


FL601 INDICATOR TUBE, FLUORESCENT
IC601
US:μPD75212ACW-276
E/EA:μPD75212ACW-299
SYSTEM CONTROL/
DISPLAY
LIVE H
IT MODEL
D621
D624
D625
D626
S601 1
S602 2
S603 3
S604 4
S605 5
S606 6
S607 7
S608 8
S609 9
S610 10
UP
DOWN
SHIFT
BAND
ST/MUT
MEMORY
TAPE
CD
TUNER
PHONO
D611-614,618,621-626,629
1N4148M
Q601
2SC2785
RESET
D601
1N4148M
Q602
SIRCS
DRIVE
IC602
GP1U52XB
REMOTO SENSOR
R1147
BN1/4W
22K,25K
MUTING
VOL.LED
D1145
VOLUME
【VOL BOARD(1/2)】
VOL.A
VOL.B
IC1103
LB1650
MOTOR DRIVE
1kHz
330Hz
100Hz
RV1105
RV1106
RV1107
+7V
MUTE
RV1109
VOL
RV1108
BALANCE
Q1102
2SC3622A
Q1152
2SC3622A
NO.722
CN1203
TO
MAIN BOARD
【VOL BOARD(1/2)】
IT MODEL

4-6. PRINTED WIRING BOARDS —MAIN Section—

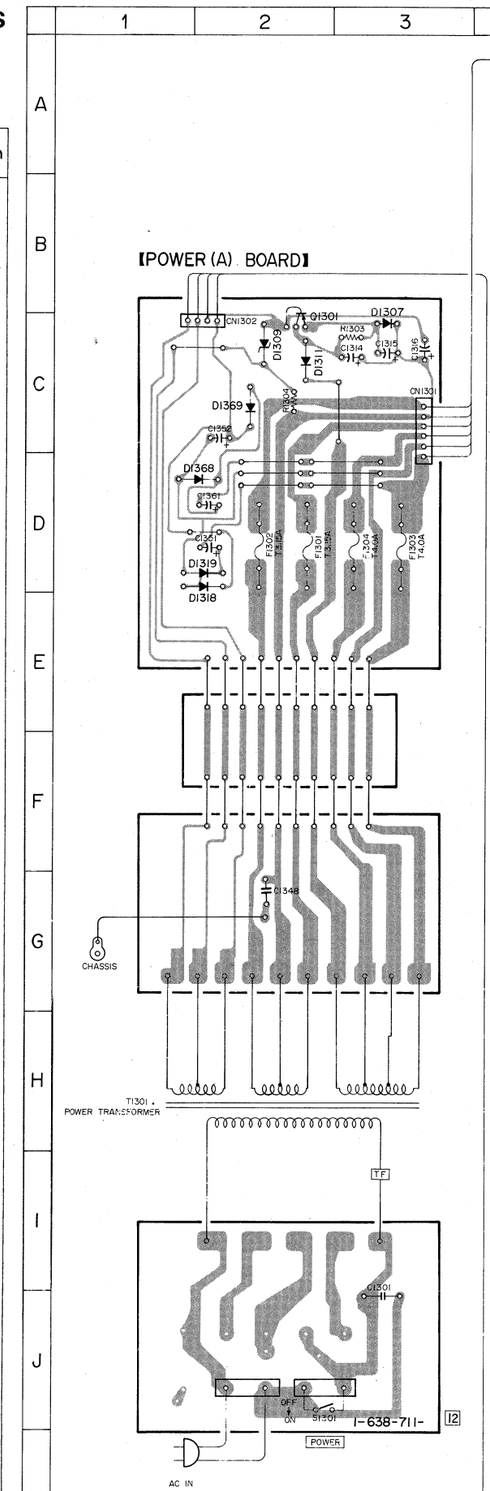
● Semiconductor Location

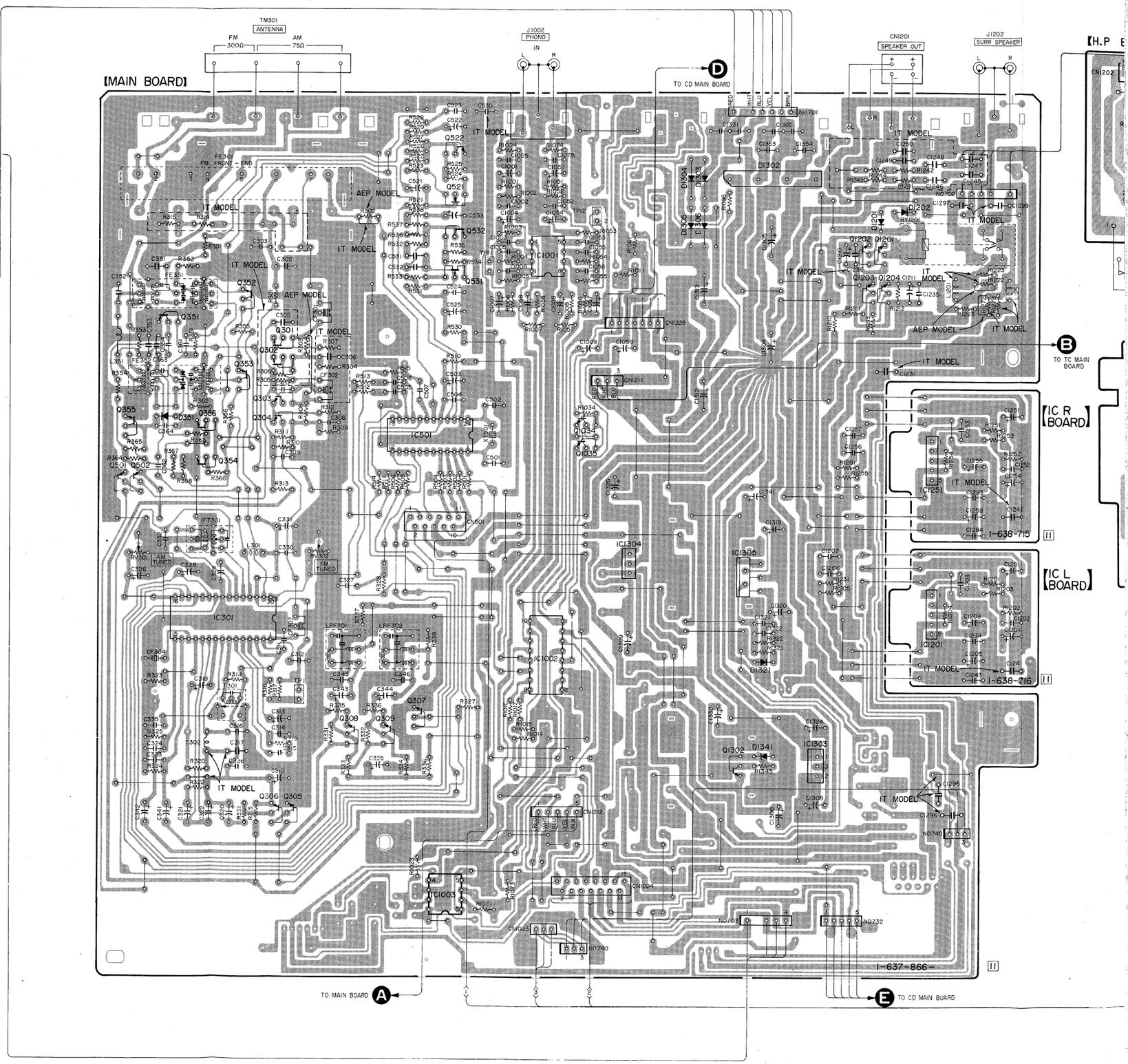
Ref. No.	Location	Ref. No.	Location
D351	E-5	IC1201	G-13
D601	E-22	IC1251	E-13
D602	E-23	IC1303	H-12
D603	E-21	IC1304	F-10
D604	D-27	IC1305	G-11
D611	F-25		
D612	E-21	Q301 (IT)	D-6
D613	E-21	Q302 (IT)	D-6
D614	E-20	Q303	E-6
D618	J-26	Q304	E-6
D621 (IT)	F-28	Q305	I-7
D624	F-28	Q306	I-6
D625	F-27	Q307	H-8
D626	F-27	Q308	H-7
D641	E-20	Q309	H-8
D701	C-21	Q351	D-5
D702	B-21	Q352	D-6
D1131	H-25	Q353	D-6
D1132	H-24	Q354	E-6
D1133	H-24	Q355	E-5
D1134	H-26	Q356	E-6
D1145	G-17	Q501	F-5
D1151	H-25	Q502	F-5
D1152	H-25	Q521	C-8
D1201	C-13	Q522	B-8
D1202	C-13	Q531	C-8
D1302	B-11	Q532	C-8
D1303	B-11	Q601	D-23
D1304	B-11	Q602	E-27
D1305	C-11	Q701	B-19
D1306	C-11	Q702	B-19
D1307	C-3	Q703	B-20
D1309	C-2	Q1034	E-10
D1311	C-2	Q1035	E-10
D1318	D-2	Q1101	J-20
D1319	D-2	Q1102	I-17
D1321	G-11	Q1136	G-26
D1341	H-11	Q1138	G-28
D1368	D-2	Q1139	I-24
D1369	C-2	Q1141	I-25
		Q1143	H-24
IC301	G-6	Q1144	H-23
IC501	E-8	Q1145	H-24
IC601	E-24	Q1151	J-18
IC602	E-28	Q1152	I-17
IC1001	C-9	Q1201	C-13
IC1002	G-9	Q1202	C-12
IC1003	J-8	Q1203	D-13
IC1101	J-22	Q1204	D-13
IC1102	G-19	Q1301	C-2
IC1103	G-17	Q1302	I-11
IC1104	H-26		

Note:

● ○—— : parts extracted from the component side.

IT: Italian





• Refer to page 10,11 for Semiconductor Lead Layouts and Circuit Boards Location.

【H.P BOARD】

【SW BOARD】

【LED BOARD】

【PANEL BOARD】

【IC R BOARD】

【IC L BOARD】

【VOL BOARD】

FL601 INDCATOR TUBE, FLUORESCENT

8G ONCE DAILY ON OFF | 7G SLEEP | 6G AUTO | 5G | 4G MUTING | 3G | 2G TUNED STEREO | 1G MEMORY PRESET | kHz MHz

4-7. SCHEMATIC DIAGRAM —CD Section—

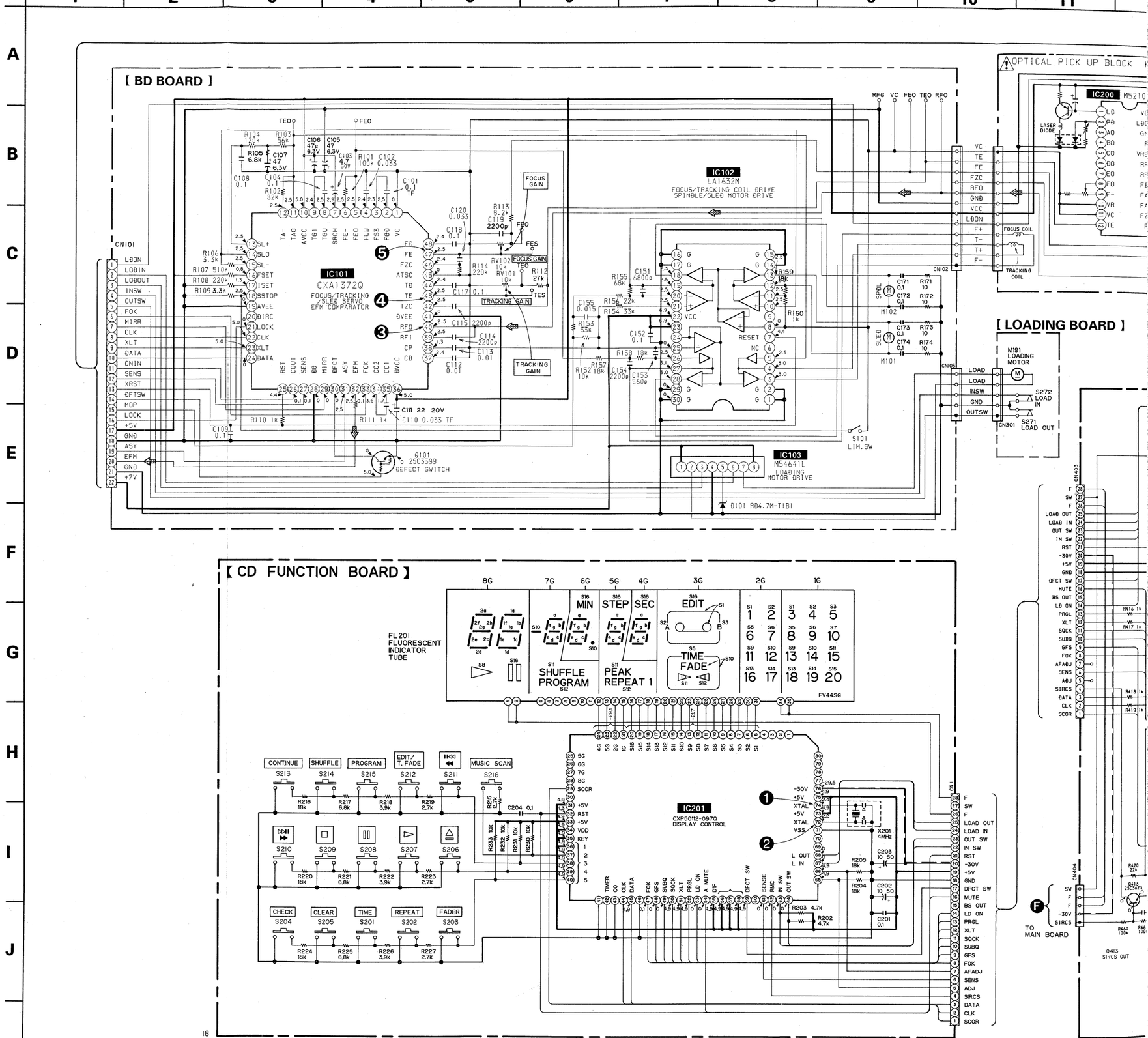
Note:

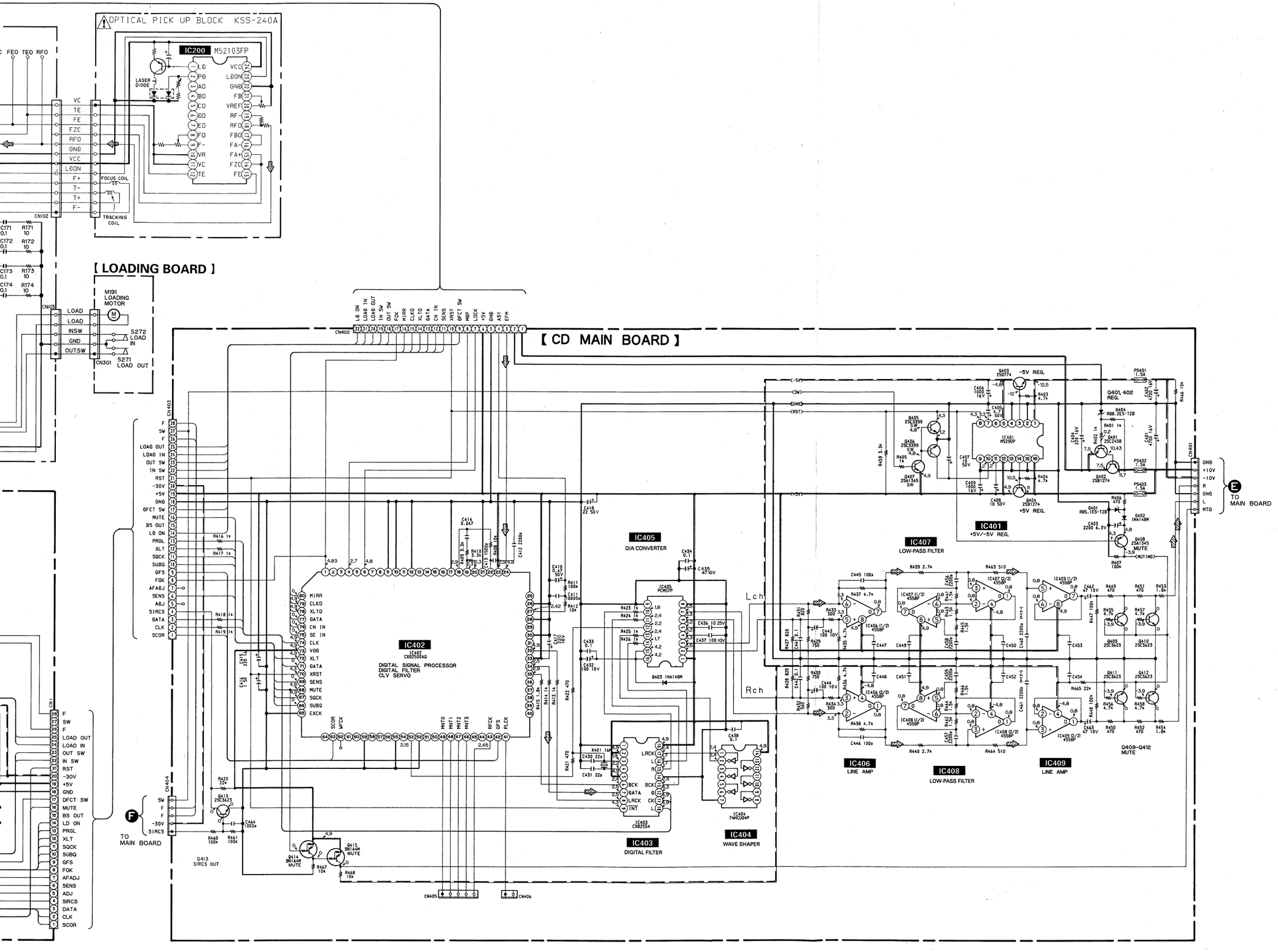
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- ▬▬ : B+ Line
- ▬ ▬ ▬ : B− Line
- ▭ : adjustment for repair.
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : CD

● Voltage is dc with respect to ground under no-signal conditions.





• Waveforms

1. 2.5VP-P, 4.0MHz — IC201 (74)
2. 5.5VP-P, 4.0MHz — IC201 (72)
3. 1.2VP-P — IC101 (40) PLAY
4. 2.5V, APPROX. 500mVP-P — IC101 (43) PLAY
5. 2.5V, APPROX. 100mVP-P — IC101 (47) PLAY

● Semiconductor Location

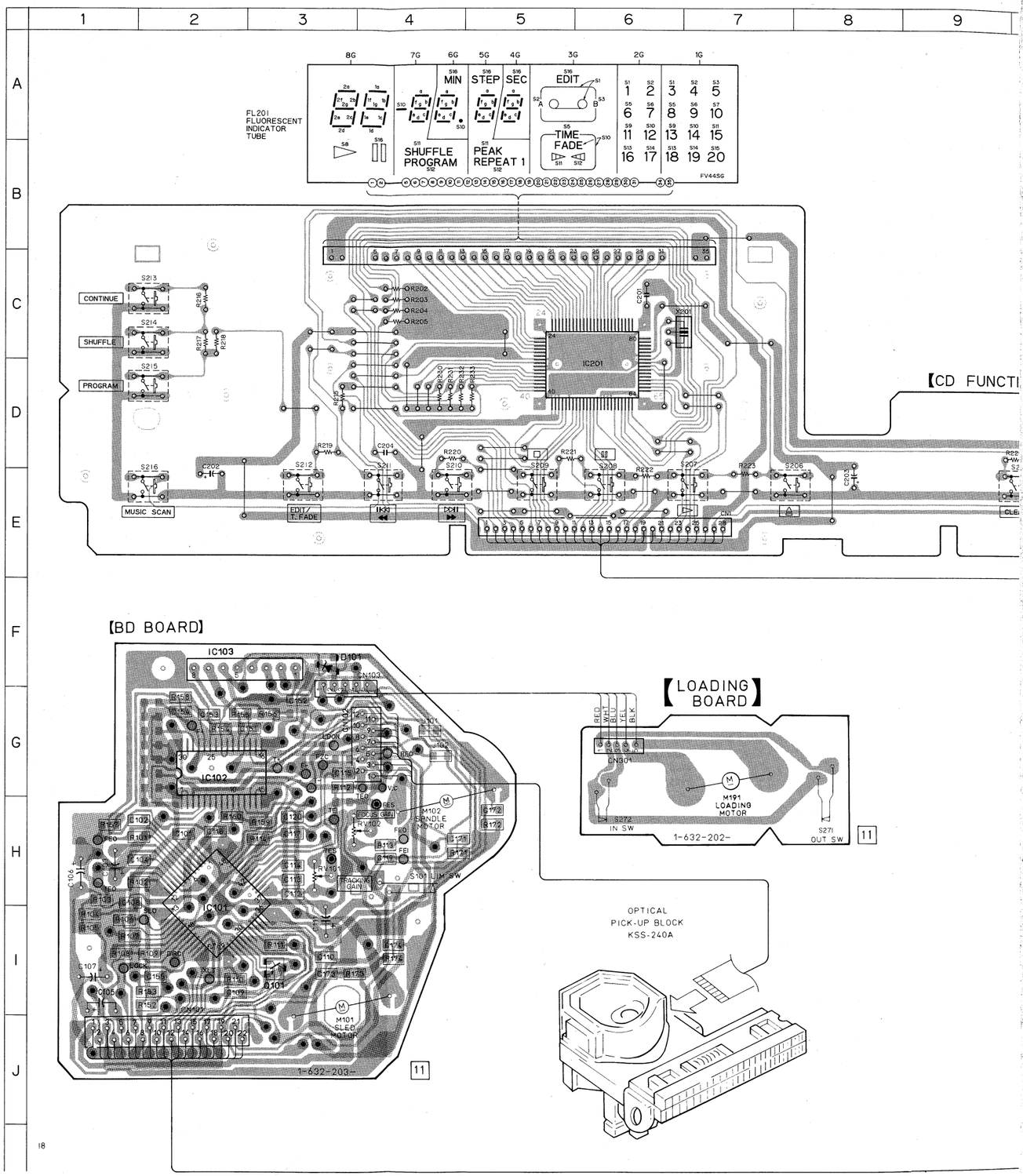
Ref. No.	Location
D101	F-3
D401	B-17
D402	B-17
D404	C-17
D407	G-15
IC101	I-2
IC102	G-2
IC103	F-2
IC201	D-5
IC401	D-17
IC402	H-14
IC403	G-14
IC404	F-14
IC405	G-15
IC406	E-14
IC407	D-15
IC408	D-14
IC409	B-14
Q101	I-3
Q401	C-17
Q402	C-17
Q403	D-17
Q404	D-16
Q405	F-17
Q406	F-17
Q407	F-16
Q408	F-16
Q409	B-15
Q410	B-16
Q411	B-14
Q412	B-13

Note:

- ○—— : parts extracted from the component side.
- ● : Through hole.
- ▒▒ : Pattern on the side which is seen.
- ▒▒ : Pattern of the rear side.
- □ : Chip components extracted from the rear side.

4-8. PRINTED WIRING BOARDS —CD Section—

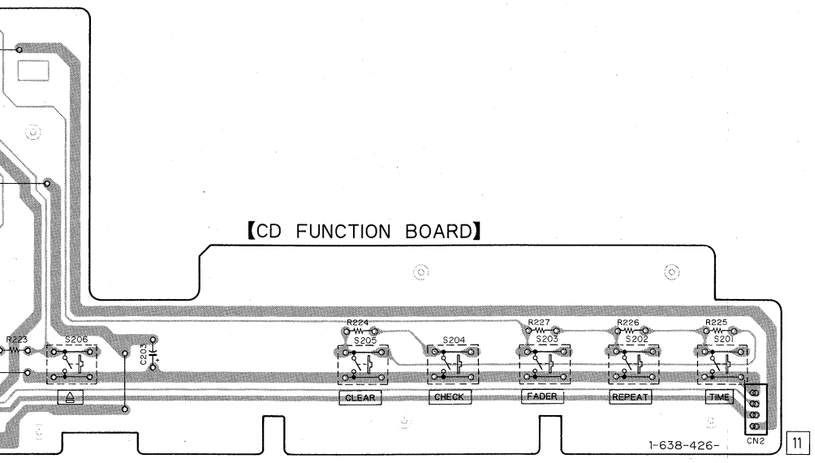
• Refer to page 10,11 for Semiconductor Lead Layouts and Circuit B



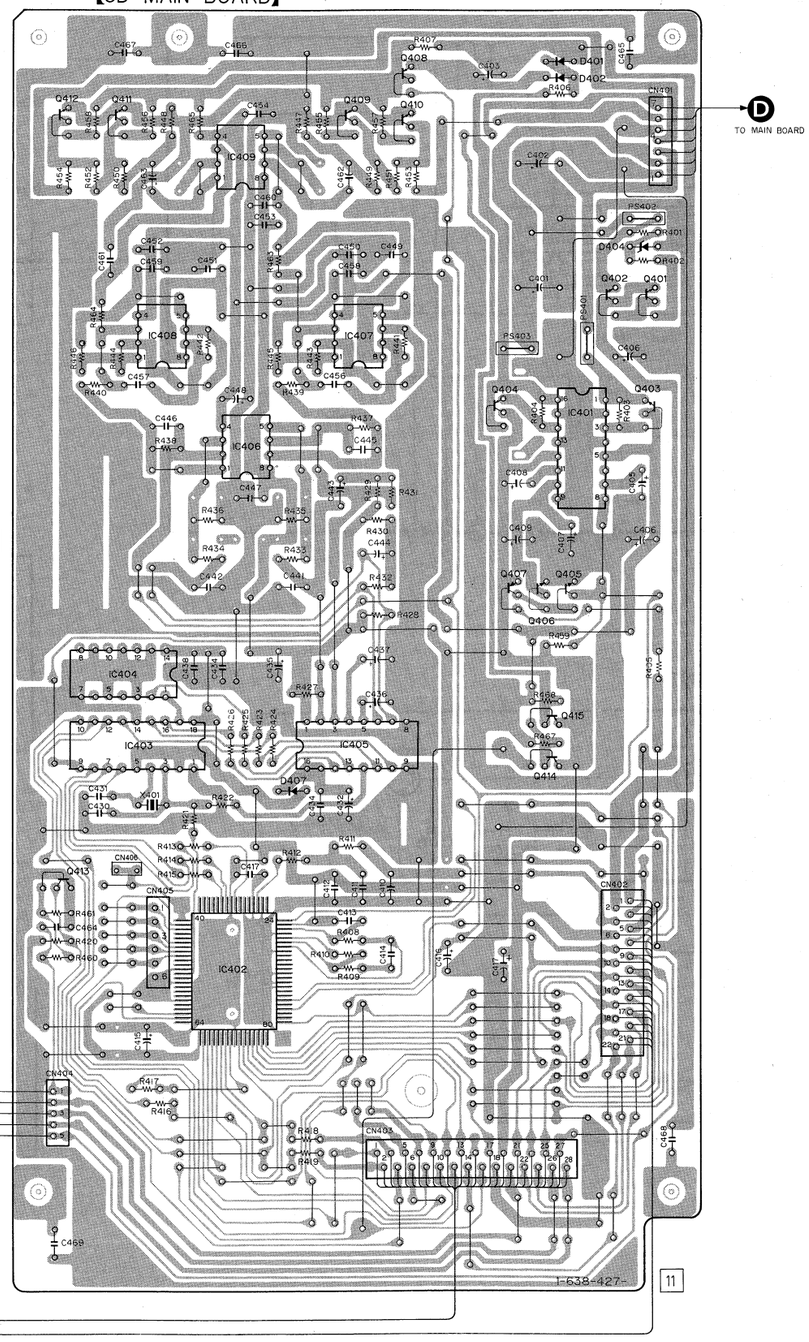
conductor Lead Layouts and Circuit Boards Location.

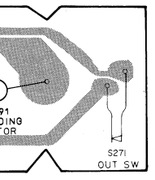
7	8	9	10	11	12	13	14	15	16	17

【CD FUNCTION BOARD】



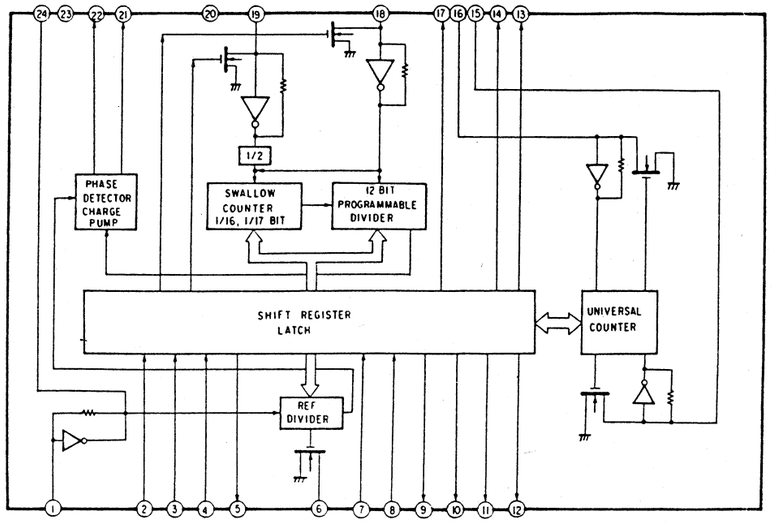
【CD MAIN BOARD】



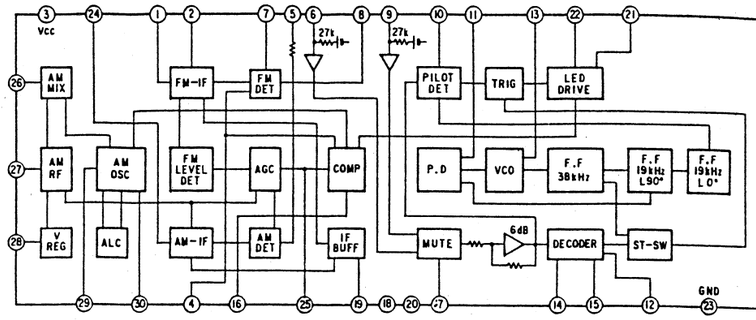


4-9. IC BLOCK DIAGRAMS

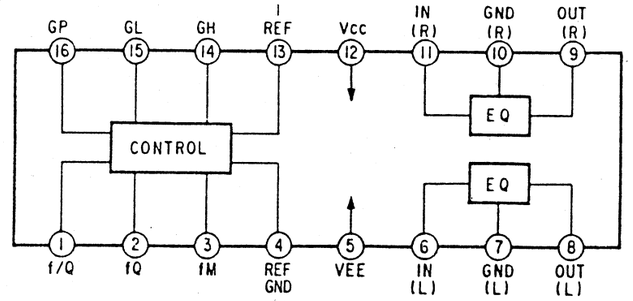
• IC501 LC7218



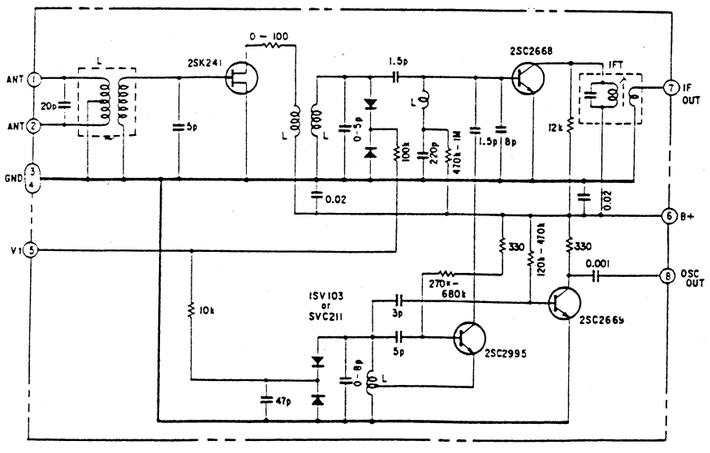
• IC301 LA1851N



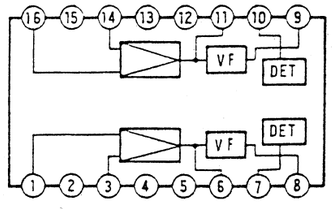
• IC404 CXA1198AP

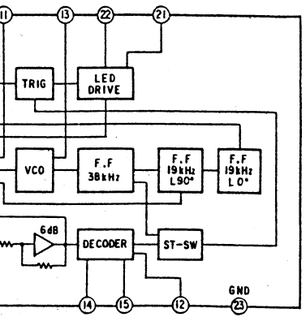


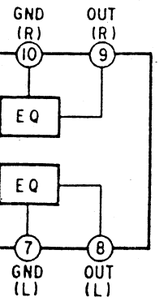
• FM FRONT-END (FE 301)



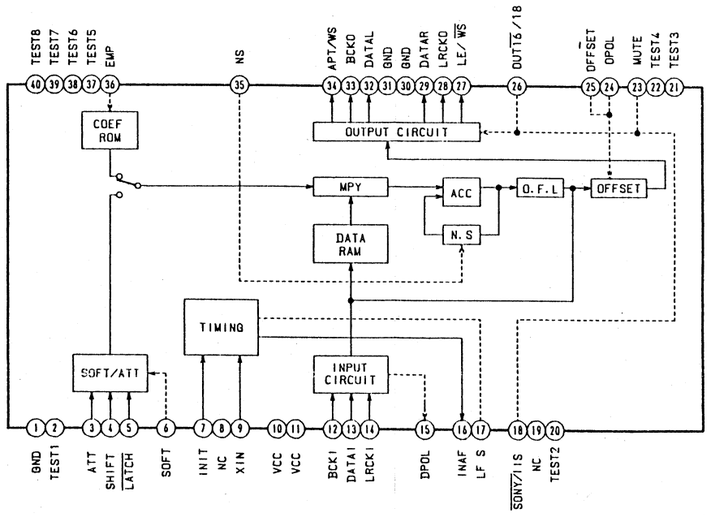
• IC403 CXA1100P



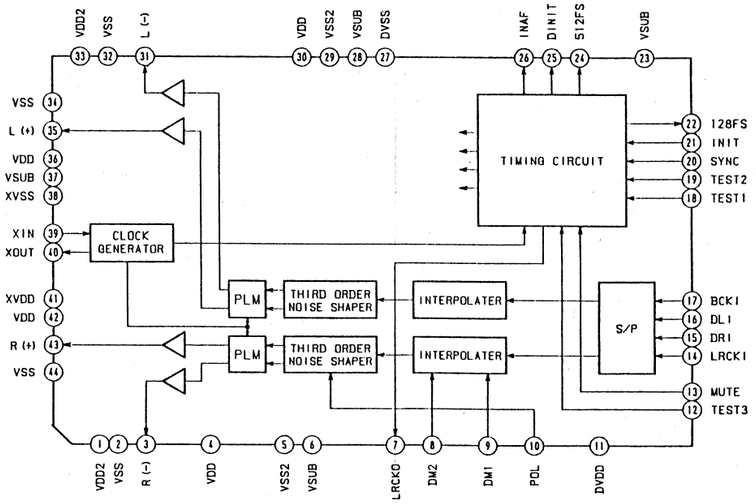




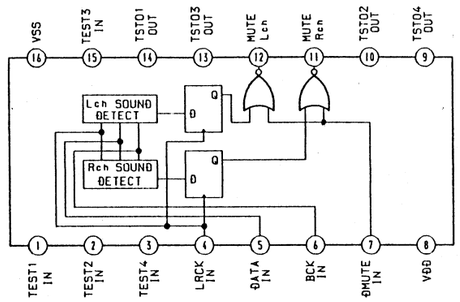
● **IC302 CXD1244S**



● **IC303 CXD2552**



● **IC304 CXD2557M**



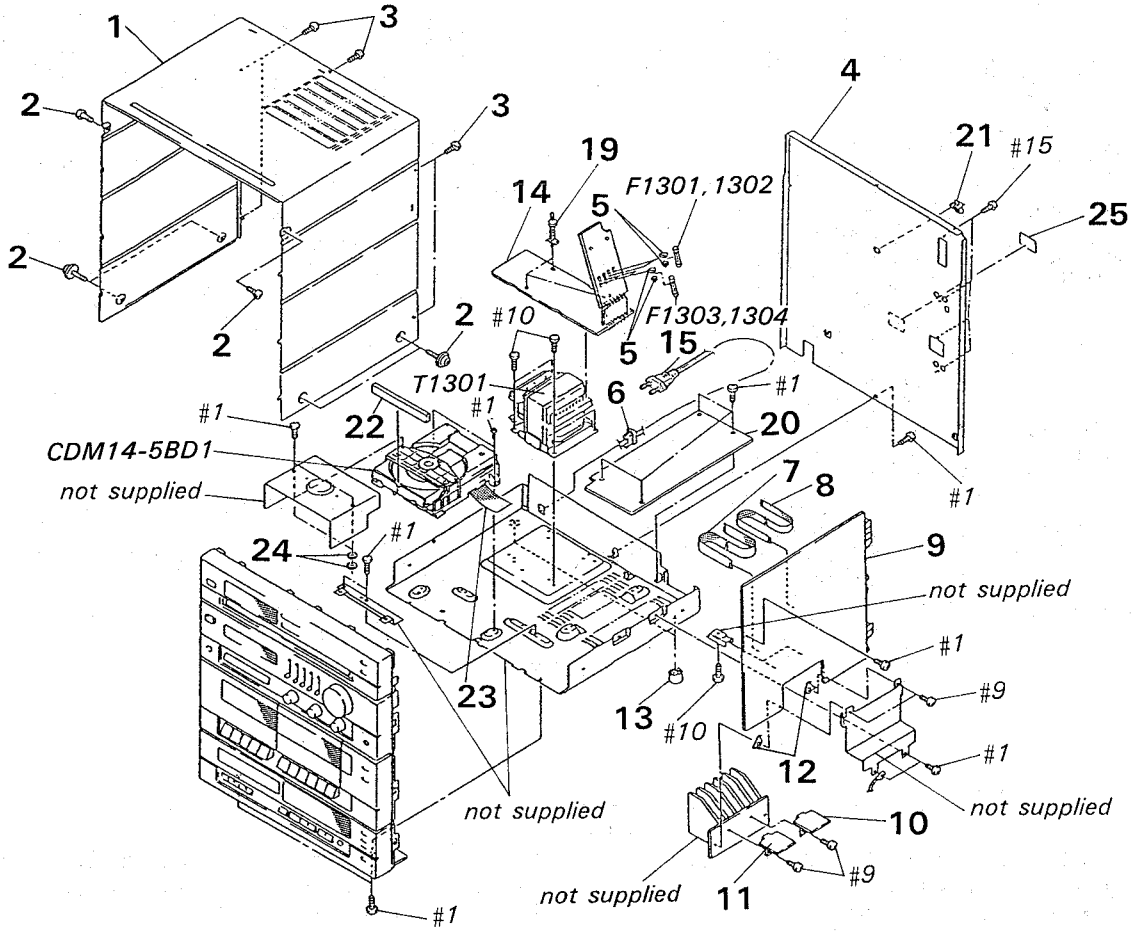
SECTION 5
EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE(WHITE)...(RED)
  ↑ ↑
  Parts color Cabinet's color
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- hardware (#mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

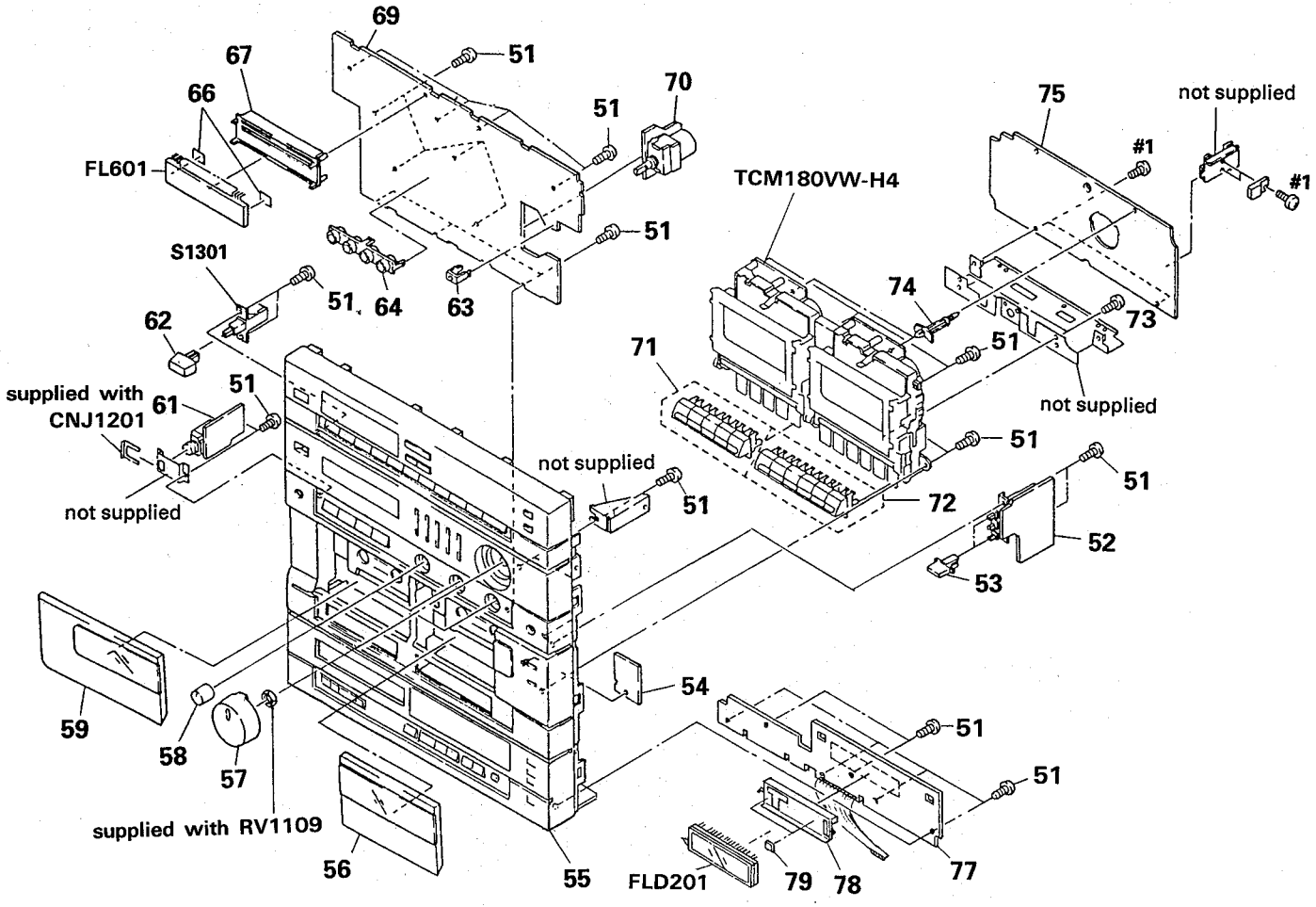
IT: Italian

5-1. CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	* 4-943-170-62	CASE	
2	3-363-099-01	SCREW (CASE +3×8 TP2)	
3	4-929-973-01	SCREW (CANE, 3 POINT)	
4	* 4-943-139-51	PANEL, BACK (AEP)	
4	* 4-943-139-61	PANEL, BACK (IT)	
5	1-533-217-31	HOLDER, FUSE	
6	* 3-703-244-00	BUSHING (2104), CORD	
7	1-575-906-11	WIRE, FLAT TYPE (15 CORE)	
8	1-590-459-11	WIRE, FLAT TYPE (11 CORE)	
9	* A-4345-500-A	MAIN BOARD, COMPLETE (AEP)	
9	* A-4345-493-A	MAIN BOARD, COMPLETE (IT)	
10	* 1-638-716-11	IC L BOARD	
11	* 1-638-717-11	IC R BOARD	
12	* 3-346-266-12	PLATE, GROUND	
13	X-4941-228-1	FOOT ASSY	
14	* 1-638-711-11	POWER (A) BOARD	
15	⚠ 1-555-750-00	CORD, POWER	
19	* 4-924-098-31	HOLDER, PC BOARD	
20	* A-4341-539-A	CD MAIN BOARD, COMPLETE	
21	* 2-379-614-01	HOOK	
22	4-943-515-01	PANEL, LOADING	
23	1-590-901-11	WIRE, FLAT TYPE (22 CORE)	
24	* 4-933-220-01	SPACER (MD)	
25	* 4-941-548-01	LABEL, CLASS 1	
F1301	⚠ 1-532-237-00	FUSE, TIME LUG (T3.15A)	
F1302	⚠ 1-532-237-00	FUSE, TIME LUG (T3.15A)	
F1303	⚠ 1-532-350-00	FUSE (T4.0A)	
F1304	⚠ 1-532-350-00	FUSE (T4.0A)	
T1301	⚠ 1-450-595-11	TRANSFORMER, POWER	

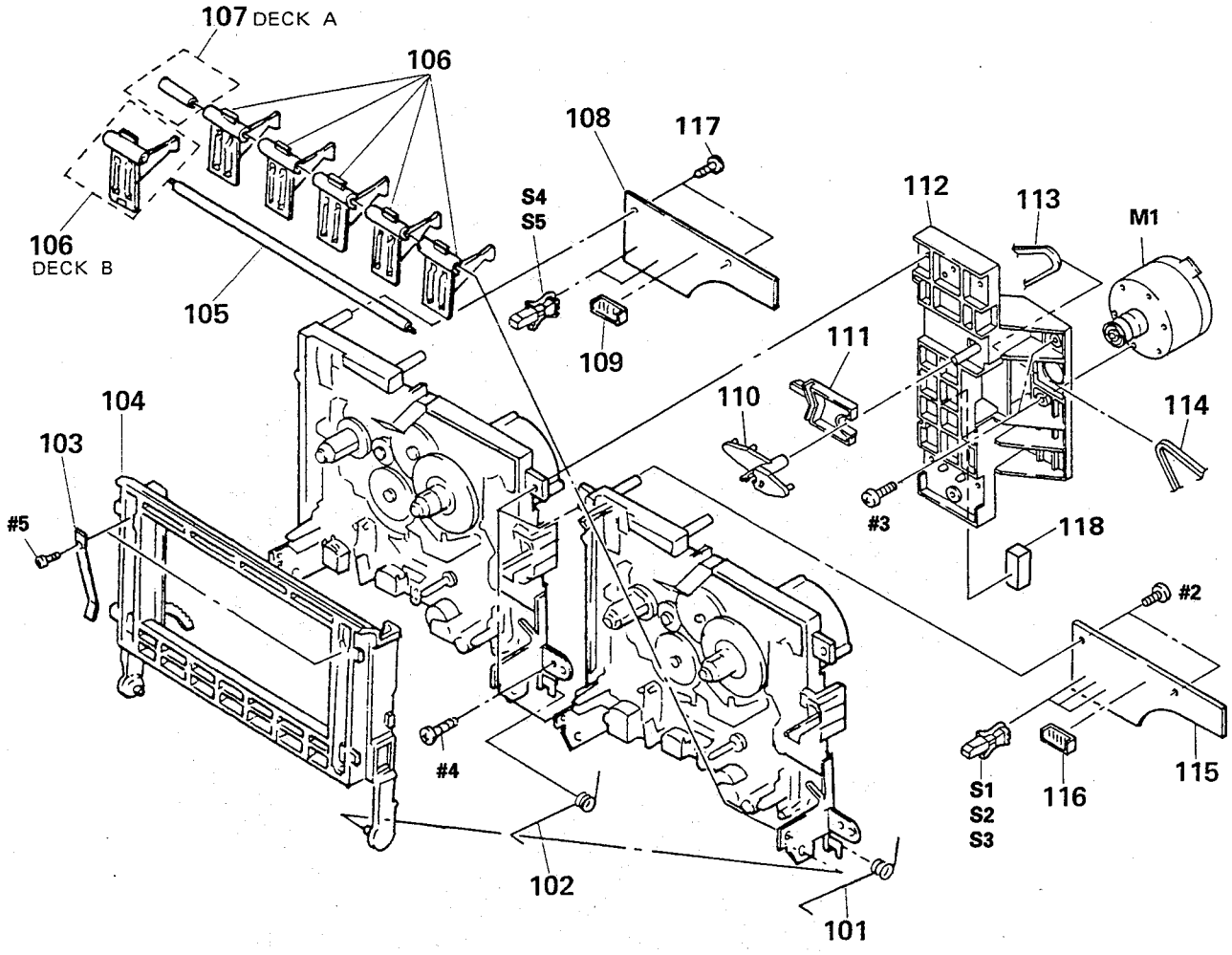
5-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	4-928-635-21	SCREW, +BV (2.6X10) TAPPING	
52	* 1-637-658-11	SW BOARD	
53	4-942-297-01	BUTTON (TC)	
54	* 1-637-659-11	LED BOARD	
55	A-4325-161-A	PANEL ASSY, FRONT	
56	A-4323-830-A	LID (B) ASSY, CASSETTE	
57	A-4323-382-A	KNOB (VO) ASSY	
58	4-942-282-01	KNOB (B)	
59	A-4323-829-A	LID (A) ASSY, CASSETTE	
61	* 1-637-656-11	H.P BOARD	
62	4-930-783-11	BUTTON (PO)	
63	* 4-930-781-11	HOLDER (VO), LED	
64	* 4-942-285-01	HOLDER (FU), LED	
66	* 4-921-941-01	CUSHION (FL)	
67	* 4-942-301-01	HOLDER, FL TUBE	
69	* A-4345-503-A	PANEL BOARD, COMPLETE (AEP)	
69	* A-4345-498-A	PANEL BOARD, COMPLETE (IT)	
70	* 1-637-655-11	VOL BOARD	
71	4-942-293-01	BUTTON (MD-A)	
72	4-942-294-01	BUTTON (MD-B)	
73	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
74	* 4-924-098-31	HOLDER, PC BOARD	
75	* A-2006-377-A	TC MAIN BOARD, COMPLETE	
77	* 1-638-426-11	CD FUNCTION BOARD	
78	* 4-923-103-01	HOLDER, FL TUBE	
79	* 4-921-941-01	CUSHION (FL)	
FL601	1-519-595-21	INDICATOR TUBE, FLUORESCENT	
FLD201	1-519-611-11	INDICATOR TUBE, FLUORESCENT	
S1301	⚠ 1-572-267-61	SWITCH, PUSH (AC POWER) (1 KEY)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

5-3. MECHANISM DECK SECTION-1
(TCM-180VW-H4)

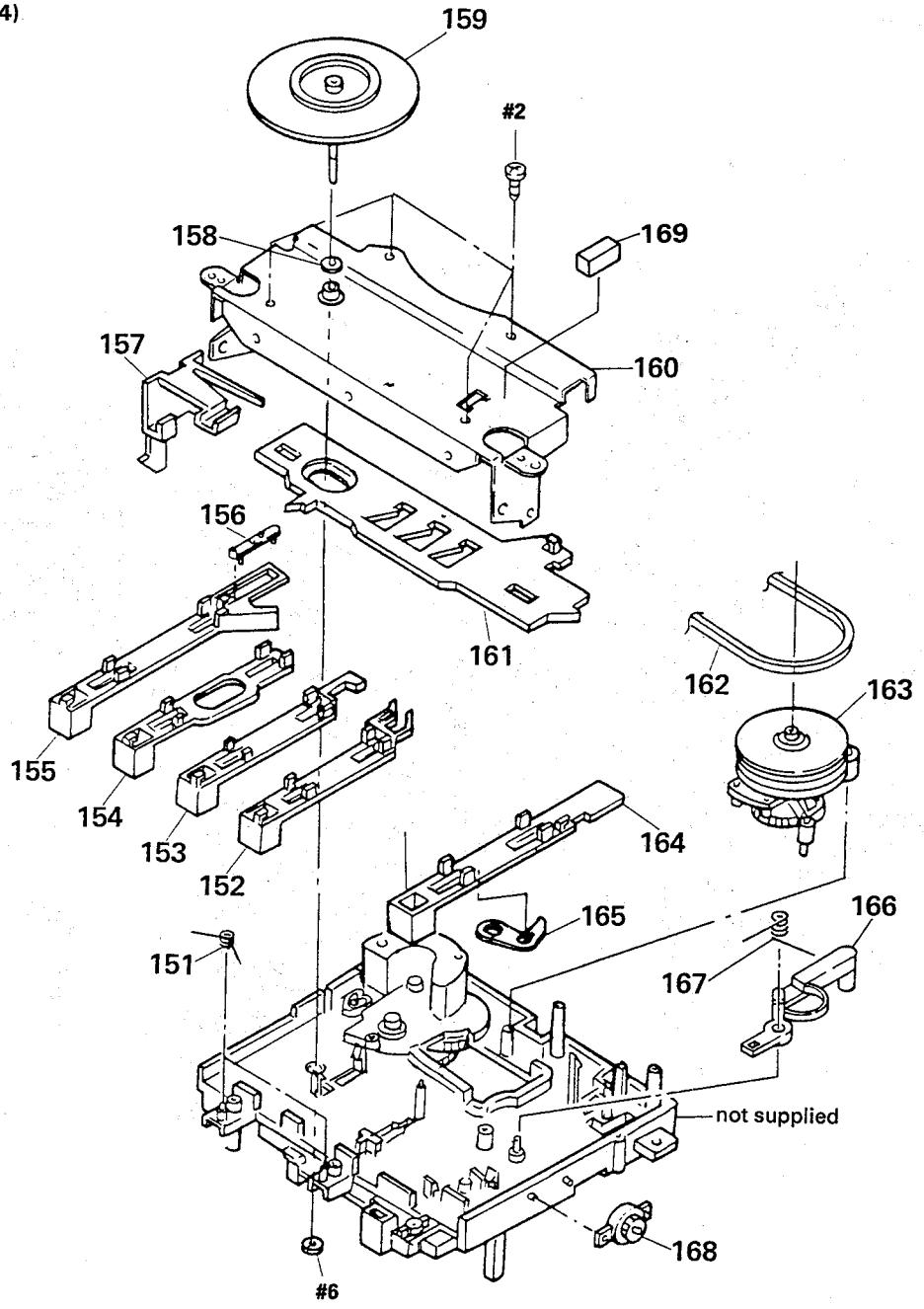


Ref. No.	Part No.	Description	Remark
101	3-358-287-01	SPRING (LOADING A), TORSION	
102	3-358-229-01	SPRING (LOADING), TORSION	
103	3-358-209-01	SPRING (CASSETTE HOLDER), LEAF	
104	3-358-266-02	HOLDER, CASSETTE	
105	3-358-242-01	SHAFT (BUTTON SHAFT)	
106	3-358-210-01	LEVER (BUTTON BASE C) (DECK B)	
107	* 3-358-216-01	COLLAR (DECK A)	
108	* 1-637-867-11	A DECK SW BOARD	
109	* 1-568-942-11	PIN, CONNECTOR 4P (CN415)	
110	3-358-203-01	LEVER (TRIGGER)	
111	3-358-202-01	SLIDER (TRIGGER)	

Ref. No.	Part No.	Description	Remark
112	* 3-363-930-01	BRACKET (JOINT BASE)	
113	3-358-230-01	BELT (A1)	
114	3-364-777-01	BELT (WH)	
115	* 1-637-868-11	B DECK SW BOARD	
116	* 1-568-943-11	PIN, CONNECTOR 5P (CN416)	
117	4-928-635-01	SCREW +BV (2.6X8) TAPPING	
118	* 3-358-289-01	SPACER (VIBRATION PROOF MAT)	
M1	X-3362-377-1	MOTOR (WH) ASSY	
S1	1-571-736-11	SWITCH, LEAF (MOTOR)	
S2	1-571-736-11	SWITCH, LEAF (FWD)	
S3	1-571-736-11	SWITCH, LEAF (REC)	
S4	1-571-736-11	SWITCH, LEAF (MOTOR)	
S5	1-571-736-11	SWITCH, LEAF (FWD)	

5-4. MECHANISM DECK SECTION-2

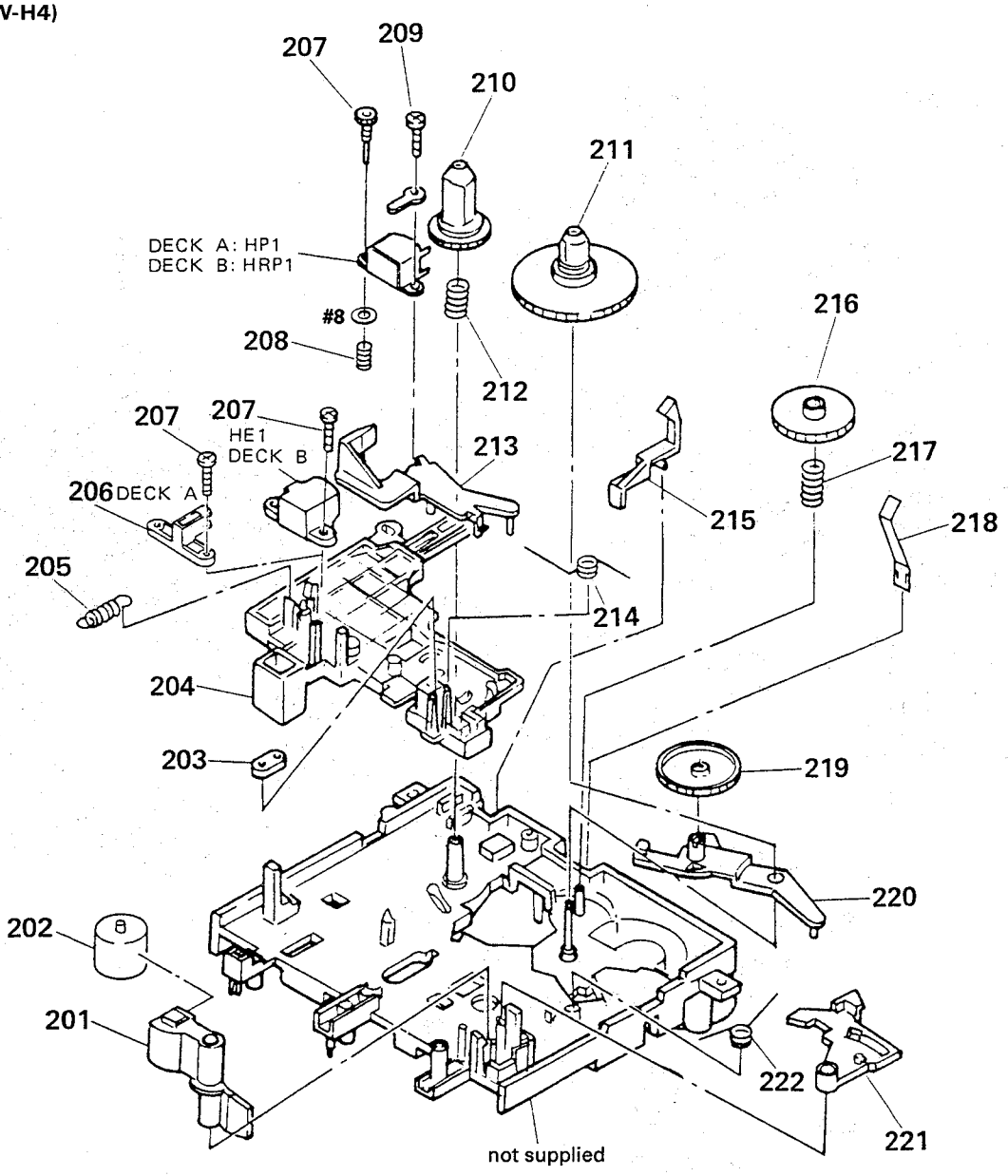
(TCM-180VW-H4)



Ref. No.	Part No.	Description	Remark
151	3-358-232-01	SPRING (S-P F-R), TORSION	
152	3-358-258-01	SLIDER (REW)	
153	3-358-257-01	SLIDER (FF)	
154	3-358-256-01	SLIDER (STOP/EJECT)	
155	3-358-260-01	SLIDER (PAUSE)	
156	* 3-358-226-01	LEVER (PAUSE LEVER)	
157	* 3-358-261-02	SLIDER (HOLDER LOCK)	
158	3-701-437-01	WASHER	
159	X-3358-205-1	FLYWHEEL (A) ASSY (DECK A)	
159	X-3358-206-1	FLYWHEEL (B) ASSY (DECK B)	
160	* X-3358-208-1	BRACKET (B) ASSY	

Ref. No.	Part No.	Description	Remark
161	* 3-358-249-01	SLIDER (LOCK PLATE)	
162	3-358-230-01	BELT (A1)	
163	X-3358-202-1	LEVER (FR ARM) ASSY	
164	3-358-259-01	SLIDER (REC)	
165	* 3-358-204-01	LEVER (REC SAFETY)	
166	3-358-286-01	LEVER (MOTOR LEVER)	
167	3-358-214-01	SPRING (LOCK), TORSION (DECK A)	
167	3-358-233-01	SPRING (REC-LOCK), TORSION (DECK B)	
168	3-319-224-31	DAMPER, SMALL	
169	* 3-358-289-01	SPACER (VIBRATION PROOF MAT)	

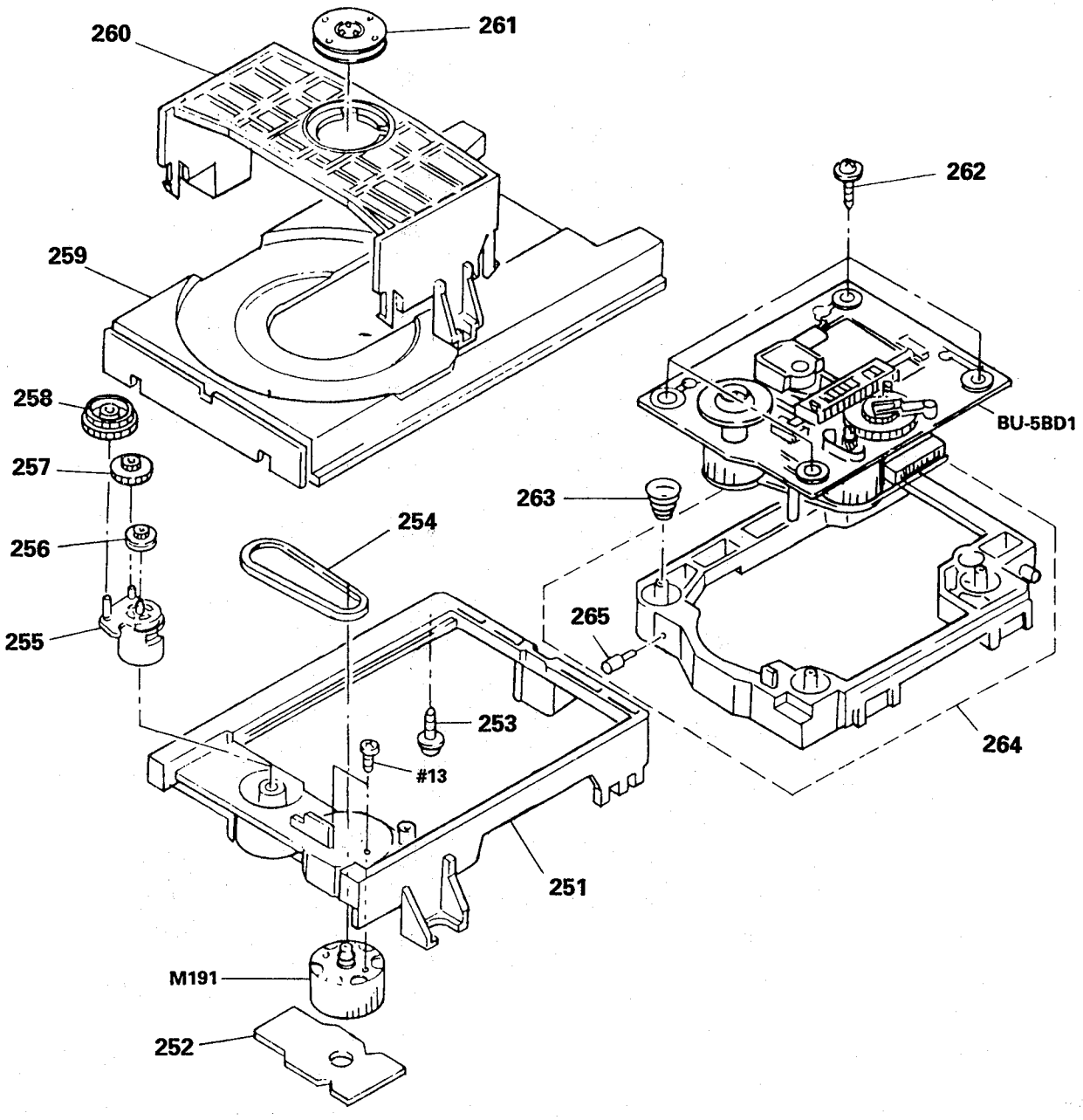
5-5. MECHANISM DECK SECTION-3
(TCM-180VW-H4)



Ref. No.	Part No.	Description	Remark
201	X-3358-204-1	LEVER (PINCH LEVER) ASSY	
202	3-578-143-11	PINCH ROLLER	
203	* 3-358-215-01	BUSHING (WIRE KIT RETAINER)	
204	3-358-265-01	SLIDER (HEAD PC BOARD A)	
205	3-358-217-01	SPRING, TENSION	
206	* 3-363-931-01	GUIDE, TAPE	
207	3-358-288-11	SCREW (T), AZIMUTH	
208	3-358-234-01	SPRING (AZIMUTH), COMPRESSION	
209	3-358-288-01	SCREW (T), AZIMUTH	
210	3-358-248-01	GEAR (SUPPLY REEL)	
211	X-3358-203-1	TABLE (T) ASSY, REEL	
212	3-358-208-01	SPRING (SUPPLY), COMPRESSION	
213	* 3-358-251-01	LEVER (TENSION DETECTION ARM)	

Ref. No.	Part No.	Description	Remark
214	3-358-228-01	SPRING, TORSION	
215	* 3-358-255-01	LEVER (GB LEVER)	
216	* 3-358-224-01	GEAR (FF GEAR)	
217	3-358-207-01	SPRING (FF GEAR), COMPRESSION	
218	3-358-227-01	SPRING, LEAF	
219	* 3-358-284-01	GEAR (TU GEAR)	
220	* 3-358-252-01	LEVER (TU ARM)	
221	* 3-358-253-01	LEVER (SHUT-OFF LEVER)	
222	3-358-243-01	SPRING (TU-SHUT), TORSION	
HE1	1-543-673-11	HEAD, MAGNETIC (ERASE) (DECK B)	
HP1	1-543-319-11	HEAD, MAGNETIC (PB) (DECK A)	
HRP1	1-543-319-11	HEAD, MAGNETIC (REC/PB) (DECK B)	

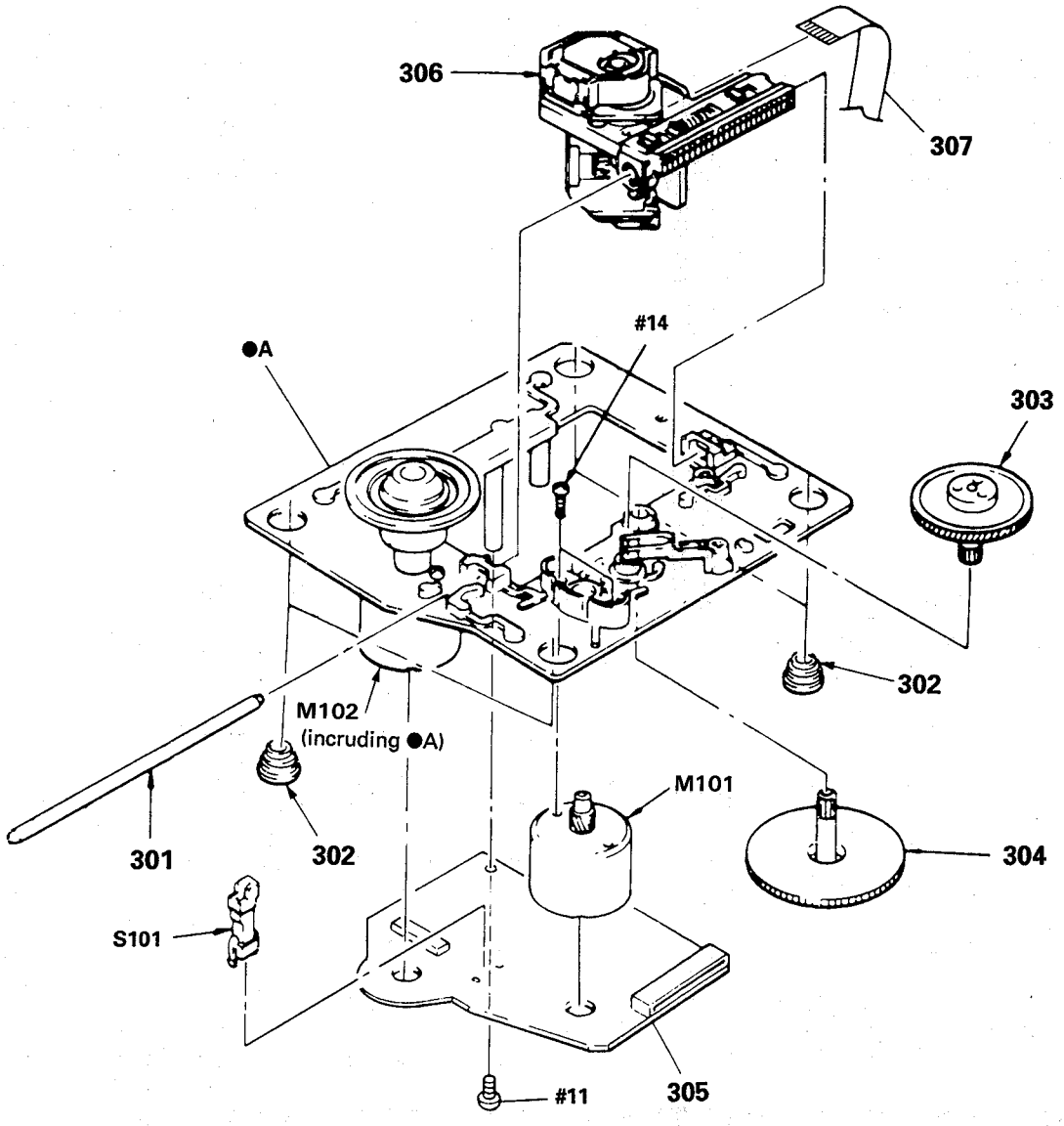
5-6. CD MECHANISM SECTION



Ref. No.	Part No.	Description	Remark
251	4-933-111-01	CHASSIS (MD)	
252	* 1-632-202-11	LOADING BOARD	
253	* 4-917-583-21	BRACKET, YOKE	
254	4-927-649-01	BELT	
255	4-933-109-01	CAM	
256	4-927-651-01	PULLEY (S)	
257	4-927-628-01	GEAR (C)	
258	4-933-107-01	GEAR (PL)	

Ref. No.	Part No.	Description	Remark
259	4-933-112-01	TABLE, DISK	
260	4-933-110-01	HOLDER (MG)	
261	* 1-452-538-11	MAGNET	
262	4-933-134-01	SCREW (+PTPWH M2.6X6)	
263	4-917-541-01	SPRING (B)	
264	4-933-129-01	HOLDER (BU)	
265	4-933-108-01	SHAFT (CAM)	
M191	A-4604-363-A	MOTOR (L) ASSY	

5-7. OPTICAL PICK-UP BLOCK SECTION



Ref. No.	Part No.	Description	Remark
301	4-917-565-01	SHAFT, SLED	
302	4-933-126-01	INSULATOR (A)	
303	4-917-567-01	GEAR (M)	
304	4-917-564-01	GEAR (P), FLATNESS	
305	A-4617-161-A	BD BOARD, COMPLETE	

Ref. No.	Part No.	Description	Remark
306	⚠8-848-144-11	DEVICE, OPTICAL KSS-240A	
307	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
M101	X-4917-504-1	MOTOR ASSY (SLED)	
M102	X-4917-523-3	MOTOR ASSY (SPINDLE)	
S101	1-572-085-11	SWITCH, LEAF	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

SECTION 6
ELECTRICAL PARTS LIST

A DECK SW

B DECK SW BD

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- RESISTORS
  All resistors are in ohms
  METAL:Metal-film resistor
  METAL OXIDE:Metal Oxide-film resistor
  F:nonflammable

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ , for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPB...
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indication parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

IT:Italian

Ref.No.	Part No.	Description	Remark
	* 1-637-867-11	A DECK SW BOARD	
		**********	
		< CAPACITOR >	
C544	1-164-159-11	CERAMIC 0.1uF	50V
		< CONNECTOR >	
CN415	* 1-568-942-11	PIN, CONNECTOR 4P	
		< SWITCH >	
S4	1-571-736-11	SWITCH, LEAF (MOTOR)	
S5	1-571-736-11	SWITCH, LEAF (FWD)	
		**********	
	* 1-637-868-11	B DECK SW BOARD	
		**********	
		< CAPACITOR >	
C545	1-164-159-11	CERAMIC 0.1uF	50V
		< CONNECTOR >	
CN416	* 1-568-943-11	PIN, CONNECTOR 5P	
		< SWITCH >	
S1	1-571-736-11	SWITCH, LEAF (MOTOR)	
S2	1-571-736-11	SWITCH, LEAF (FWD)	
S3	1-571-736-11	SWITCH, LEAF (REC)	

Ref.No.	Part No.	Description		Remark
	A-4617-161-A	BD BOARD, COMPLETE		
		**********		
		< CAPACITOR >		
C101	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C102	1-163-989-11	CERAMIC CHIP 0.033uF	10%	25V
C103	1-126-163-11	ELECT 4.7uF	20%	50V
C104	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C105	1-126-154-11	ELECT 47uF	20%	6.3V
C106	1-126-154-11	ELECT 47uF	20%	6.3V
C107	1-126-154-11	ELECT 47uF	20%	6.3V
C108	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C109	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C110	1-163-989-11	CERAMIC CHIP 0.033uF	10%	25V
C111	1-131-367-00	TANTALUM 22uF	10%	20V
C112	1-164-232-11	CERAMIC CHIP 0.01uF		50V
C113	1-164-232-11	CERAMIC CHIP 0.01uF		50V
C114	1-164-161-11	CERAMIC CHIP 0.0022uF	10%	100V
C115	1-164-161-11	CERAMIC CHIP 0.0022uF	10%	100V
C117	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C118	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C119	1-164-161-11	CERAMIC CHIP 0.0022uF	10%	100V
C120	1-163-989-11	CERAMIC CHIP 0.033uF	10%	25V
C151	1-163-019-00	CERAMIC CHIP 0.0068uF	10%	50V
C152	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C153	1-163-006-11	CERAMIC CHIP 560PF	10%	50V
C154	1-164-161-11	CERAMIC CHIP 0.0022uF	10%	100V
C155	1-163-023-00	CERAMIC CHIP 0.015uF	5%	50V
C171	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C172	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C173	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C174	1-163-038-00	CERAMIC CHIP 0.1uF		25V

BD CD FUNCTION

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
CN101	1-568-796-11	SOCKET, CONNECTOR 22P			
CN102	1-568-795-11	SOCKET, CONNECTOR 12P			
CN103	1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P			
		< DIODE >			
D101	8-719-105-72	DIODE RD4.7M-B1			
		< IC >			
IC101	8-752-050-82	IC CXA1372Q			
IC102	8-759-822-36	IC LA6532M			
IC103	8-759-633-65	IC M54641L			
		< JUMPER >			
J101	1-216-295-00	METAL CHIP	0	5% 1/10W	
J102	1-216-295-00	METAL CHIP	0	5% 1/10W	
		< TRANSISTOR >			
Q101	8-729-901-01	TRANSISTOR DTC144EK			
		< RESISTOR >			
R101	1-216-097-00	METAL CHIP	100K	5% 1/10W	
R102	1-216-095-00	METAL CHIP	82K	5% 1/10W	
R103	1-216-091-00	METAL CHIP	56K	5% 1/10W	
R104	1-216-099-00	METAL CHIP	120K	5% 1/10W	
R105	1-216-069-00	METAL CHIP	6.8K	5% 1/10W	
R106	1-216-061-00	METAL CHIP	3.3K	5% 1/10W	
R107	1-216-114-00	METAL GLAZE	510K	5% 1/10W	
R108	1-216-105-00	METAL CHIP	220K	5% 1/10W	
R109	1-216-061-00	METAL CHIP	3.3K	5% 1/10W	
R110	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R111	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R112	1-216-083-00	METAL CHIP	27K	5% 1/10W	
R113	1-216-071-00	METAL CHIP	8.2K	5% 1/10W	
R114	1-216-105-00	METAL CHIP	220K	5% 1/10W	
R152	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R153	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R154	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R155	1-216-093-00	METAL CHIP	68K	5% 1/10W	
R156	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R157	1-216-079-00	METAL CHIP	18K	5% 1/10W	
R158	1-216-079-00	METAL CHIP	18K	5% 1/10W	
R159	1-216-079-00	METAL CHIP	18K	5% 1/10W	
R160	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R171	1-216-001-00	METAL CHIP	10	5% 1/10W	
R172	1-216-001-00	METAL CHIP	10	5% 1/10W	
R173	1-216-001-00	METAL CHIP	10	5% 1/10W	
R174	1-216-001-00	METAL CHIP	10	5% 1/10W	

Ref. No.	Part No.	Description			Remark
		< VARIABLE RESISTOR >			
RV101	1-238-016-11	RES, ADJ, CARBON 10K			
RV102	1-238-016-11	RES, ADJ, CARBON 10K			
		< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF			

****

* 1-638-426-11 CD FUNCTION BOARD
****

* 4-921-941-01 CUSHION (FL)
* 4-923-103-01 HOLDER, FL TUBE

		< CAPACITOR >			
C201	1-164-159-11	CERAMIC	0.1uF		50V
C202	1-124-907-11	ELECT	10uF	20%	50V
C203	1-124-907-11	ELECT	10uF	20%	50V
C204	1-164-159-11	CERAMIC	0.1uF		50V
		< INDICATOR TUBE >			
FL201	1-519-611-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC201	8-752-817-41	IC CXP50112-097Q			
		< RESISTOR >			
R202	1-249-425-11	CARBON	4.7K	5% 1/4W	
R203	1-249-425-11	CARBON	4.7K	5% 1/4W	
R204	1-249-432-11	CARBON	18K	5% 1/4W	
R205	1-249-432-11	CARBON	18K	5% 1/4W	
R215	1-249-422-11	CARBON	2.7K	5% 1/4W	
R216	1-249-432-11	CARBON	18K	5% 1/4W	
R217	1-249-427-11	CARBON	6.8K	5% 1/4W	
R218	1-249-424-11	CARBON	3.9K	5% 1/4W	
R219	1-249-422-11	CARBON	2.7K	5% 1/4W	
R220	1-249-432-11	CARBON	18K	5% 1/4W	
R221	1-249-427-11	CARBON	6.8K	5% 1/4W	
R222	1-249-424-11	CARBON	3.9K	5% 1/4W	
R223	1-249-422-11	CARBON	2.7K	5% 1/4W	
R224	1-249-432-11	CARBON	18K	5% 1/4W	
R225	1-249-427-11	CARBON	6.8K	5% 1/4W	
R226	1-249-424-11	CARBON	3.9K	5% 1/4W	
R227	1-249-422-11	CARBON	2.7K	5% 1/4W	
R230	1-249-429-11	CARBON	10K	5% 1/4W	
R231	1-249-429-11	CARBON	10K	5% 1/4W	
R232	1-249-429-11	CARBON	10K	5% 1/4W	

CD FUNCTION CD MAIN

Ref. No.	Part No.	Description			Remark
R233	1-249-429-11	CARBON	10K	5% 1/4W	
		< SWITCH >			
S201	1-554-303-21	SWITCH, KEY BOARD (TIME)			
S202	1-554-303-21	SWITCH, KEY BOARD (REPEAT)			
S203	1-554-303-21	SWITCH, KEY BOARD (FADER)			
S204	1-554-303-21	SWITCH, KEY BOARD (CHECK)			
S205	1-554-303-21	SWITCH, KEY BOARD (CLEAR)			
S206	1-554-303-21	SWITCH, KEY BOARD (EJECT)			
S207	1-554-303-21	SWITCH, KEY BOARD (PLAY)			
S208	1-554-303-21	SWITCH, KEY BOARD (PAUSE)			
S209	1-554-303-21	SWITCH, KEY BOARD (STOP)			
S210	1-554-303-21	SWITCH, KEY BOARD (FF/AMS SEARCH)			
S211	1-554-303-21	SWITCH, KEY BOARD (REW/AMS SEARCH)			
S212	1-554-303-21	SWITCH, KEY BOARD (EDIT/T FADE)			
S213	1-554-303-21	SWITCH, KEY BOARD (CONTINUE)			
S214	1-554-303-21	SWITCH, KEY BOARD (SHUFFLE)			
S215	1-554-303-21	SWITCH, KEY BOARD (PROGRAM)			
S216	1-554-303-21	SWITCH, KEY BOARD (MUSIC SCAN)			
		< CRYSTAL >			
X201	1-577-358-21	VIBRATOR, CERAMIC (4MHz)			
**********					
	* A-4341-539-A	CD MAIN BOARD, COMPLETE			
		**********			
	7-682-548-04	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C401	1-124-898-11	ELECT	4700uF	20% 16V	
C402	1-124-898-11	ELECT	4700uF	20% 16V	
C403	1-124-893-11	ELECT	2200uF	20% 6.3V	
C404	1-124-120-11	ELECT	220uF	20% 16V	
C405	1-124-927-11	ELECT	4.7uF	20% 50V	
C406	1-124-360-00	ELECT	1000uF	20% 16V	
C407	1-124-907-11	ELECT	10uF	20% 50V	
C408	1-124-907-11	ELECT	10uF	20% 50V	
C409	1-124-360-00	ELECT	1000uF	20% 16V	
C410	1-124-902-00	ELECT	0.47uF	20% 50V	
C411	1-130-483-00	MYLAR	0.01uF	5% 50V	
C412	1-130-475-00	MYLAR	0.0022uF	5% 50V	
C413	1-130-473-00	MYLAR	0.0015uF	5% 50V	
C414	1-136-161-00	FILM	0.047uF	5% 50V	
C415	1-124-120-11	ELECT	220uF	20% 16V	
C416	1-124-903-11	ELECT	1uF	20% 50V	
C417	1-124-120-11	ELECT	220uF	20% 16V	

Ref. No.	Part No.	Description			Remark
C418	1-136-157-00	FILM	0.022uF	5% 50V	
C430	1-162-207-31	CERAMIC	22PF	5% 50V	
C431	1-162-207-31	CERAMIC	22PF	5% 50V	
C432	1-124-443-00	ELECT	100uF	20% 10V	
C433	1-164-159-11	CERAMIC	0.1uF	50V	
C434	1-164-159-11	CERAMIC	0.1uF	50V	
C435	1-124-126-00	ELECT	47uF	20% 10V	
C436	1-124-907-11	ELECT	10uF	20% 50V	
C437	1-124-443-00	ELECT	100uF	20% 10V	
C438	1-164-159-11	CERAMIC	0.1uF	50V	
C441	1-164-159-11	CERAMIC	0.1uF	50V	
C442	1-164-159-11	CERAMIC	0.1uF	50V	
C443	1-124-443-00	ELECT	100uF	20% 10V	
C444	1-124-443-00	ELECT	100uF	20% 10V	
C445	1-162-282-31	CERAMIC	100PF	10% 50V	
C446	1-162-282-31	CERAMIC	100PF	10% 50V	
C447	1-164-159-11	CERAMIC	0.1uF	50V	
C448	1-164-159-11	CERAMIC	0.1uF	50V	
C449	1-164-159-11	CERAMIC	0.1uF	50V	
C450	1-164-159-11	CERAMIC	0.1uF	50V	
C451	1-164-159-11	CERAMIC	0.1uF	50V	
C452	1-164-159-11	CERAMIC	0.1uF	50V	
C453	1-164-159-11	CERAMIC	0.1uF	50V	
C454	1-164-159-11	CERAMIC	0.1uF	50V	
C456	1-130-475-00	MYLAR	0.0022uF	5% 50V	
C457	1-130-475-00	MYLAR	0.0022uF	5% 50V	
C458	1-130-475-00	MYLAR	0.0022uF	5% 50V	
C459	1-130-475-00	MYLAR	0.0022uF	5% 50V	
C460	1-130-475-00	MYLAR	0.0022uF	5% 50V	
C461	1-130-475-00	MYLAR	0.0022uF	5% 50V	
C462	1-124-126-00	ELECT	47uF	20% 10V	
C463	1-124-126-00	ELECT	47uF	20% 10V	
C464	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C465	1-164-159-11	CERAMIC	0.1uF	50V	
C466	1-164-159-11	CERAMIC	0.1uF	50V	
C467	1-164-159-11	CERAMIC	0.1uF	50V	
C468	1-164-159-11	CERAMIC	0.1uF	50V	
C469	1-164-159-11	CERAMIC	0.1uF	50V	
		< CONNECTOR >			
CN402	* 1-568-822-11	SOCKET, CONNECTOR 22P			
CN403	* 1-568-843-11	SOCKET, CONNECTOR 28P			
CN404	* 1-568-954-11	PIN, CONNECTOR 5P			
CN405	* 1-560-064-00	PIN, CONNECTOR 6P			
CN406	* 1-560-060-00	PIN, CONNECTOR 2P			
		< DIODE >			
D401	8-719-010-38	DIODE	UZ-5.1BSB		
D402	8-719-987-63	DIODE	1N4148M		

CD MAIN

Ref. No.	Part No.	Description	Remark
D403	8-719-987-63	DIODE 1N4148M	
D404	8-719-010-58	DIODE UZ-8.2BSB	
		< IC >	
IC401	8-759-630-21	IC M5290P-16	
IC402	8-752-337-26	IC CXD2500AQ	
IC403	8-752-337-09	IC CXD2554P	
IC404	8-759-917-18	IC SN74HCU04AN	
IC405	8-759-506-60	IC PCM67P	
IC406	8-759-945-58	IC RC4558P	
IC407	8-759-945-58	IC RC4558P	
IC408	8-759-945-58	IC RC4558P	
IC409	8-759-945-58	IC RC4558P	
		< IC LINK >	
PS401	⚠1-532-675-00	LINK, IC 1.5A	
PS402	⚠1-532-675-00	LINK, IC 1.5A	
PS403	⚠1-532-675-00	LINK, IC 1.5A	
		< TRANSISTOR >	
Q401	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q402	8-729-820-15	TRANSISTOR 2SB1094-L	
Q403	8-729-140-96	TRANSISTOR 2SD774-34	
Q404	8-729-820-15	TRANSISTOR 2SB1094-L	
Q405	8-729-900-89	TRANSISTOR DTC144ES	
Q406	8-729-900-89	TRANSISTOR DTC144ES	
Q407	8-729-900-65	TRANSISTOR DTA144ES	
Q408	8-729-900-65	TRANSISTOR DTA144ES	
Q409	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q410	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q411	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q412	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q413	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q414	8-729-900-61	TRANSISTOR DTA114ES	
Q415	8-729-900-61	TRANSISTOR DTA114ES	
		< RESISTOR >	
R401	1-249-417-11	CARBON 1K 5% 1/4W	
R402	1-249-417-11	CARBON 1K 5% 1/4W	
R403	1-249-425-11	CARBON 4.7K 5% 1/4W	
R404	1-249-425-11	CARBON 4.7K 5% 1/4W	
R405	1-249-417-11	CARBON 1K 5% 1/4W	
R406	1-249-413-11	CARBON 470 5% 1/4W	
R407	1-249-441-11	CARBON 100K 5% 1/4W	
R408	1-249-429-11	CARBON 10K 5% 1/4W	
R409	1-249-423-11	CARBON 3.3K 5% 1/4W	
R410	1-249-423-11	CARBON 3.3K 5% 1/4W	
R411	1-249-441-11	CARBON 100K 5% 1/4W	
R412	1-249-429-11	CARBON 10K 5% 1/4W	

Ref. No.	Part No.	Description	Remark
R413	1-249-417-11	CARBON 1K 5% 1/4W	
R414	1-249-417-11	CARBON 1K 5% 1/4W	
R415	1-249-420-11	CARBON 1.8K 5% 1/4W	
R416	1-249-417-11	CARBON 1K 5% 1/4W	
R417	1-249-417-11	CARBON 1K 5% 1/4W	
R418	1-249-417-11	CARBON 1K 5% 1/4W	
R419	1-249-417-11	CARBON 1K 5% 1/4W	
R420	1-249-433-11	CARBON 22K 5% 1/4W	
R421	1-249-413-11	CARBON 470 5% 1/4W	
R422	1-249-413-11	CARBON 470 5% 1/4W	
R423	1-249-417-11	CARBON 1K 5% 1/4W	
R424	1-249-417-11	CARBON 1K 5% 1/4W	
R425	1-249-417-11	CARBON 1K 5% 1/4W	
R426	1-249-417-11	CARBON 1K 5% 1/4W	
R427	1-249-416-11	CARBON 820 5% 1/4W	
R428	1-249-416-11	CARBON 820 5% 1/4W	
R429	1-247-828-11	CARBON 750 5% 1/4W	
R430	1-247-828-11	CARBON 750 5% 1/4W	
R431	1-249-416-11	CARBON 820 5% 1/4W	
R432	1-249-416-11	CARBON 820 5% 1/4W	
R433	1-247-818-11	CARBON 300 5% 1/4W	
R434	1-247-818-11	CARBON 300 5% 1/4W	
R435	1-249-425-11	CARBON 4.7K 5% 1/4W	
R436	1-249-425-11	CARBON 4.7K 5% 1/4W	
R437	1-249-425-11	CARBON 4.7K 5% 1/4W	
R438	1-249-425-11	CARBON 4.7K 5% 1/4W	
R439	1-249-422-11	CARBON 2.7K 5% 1/4W	
R440	1-249-422-11	CARBON 2.7K 5% 1/4W	
R441	1-249-419-11	CARBON 1.5K 5% 1/4W	
R442	1-249-419-11	CARBON 1.5K 5% 1/4W	
R443	1-249-419-11	CARBON 1.5K 5% 1/4W	
R444	1-249-419-11	CARBON 1.5K 5% 1/4W	
R445	1-249-419-11	CARBON 1.5K 5% 1/4W	
R446	1-249-419-11	CARBON 1.5K 5% 1/4W	
R447	1-249-441-11	CARBON 100K 5% 1/4W	
R448	1-249-441-11	CARBON 100K 5% 1/4W	
R449	1-249-413-11	CARBON 470 5% 1/4W	
R450	1-249-413-11	CARBON 470 5% 1/4W	
R451	1-249-413-11	CARBON 470 5% 1/4W	
R452	1-249-413-11	CARBON 470 5% 1/4W	
R453	1-249-420-11	CARBON 1.8K 5% 1/4W	
R454	1-249-420-11	CARBON 1.8K 5% 1/4W	
R455	1-249-425-11	CARBON 4.7K 5% 1/4W	
R456	1-249-425-11	CARBON 4.7K 5% 1/4W	
R457	1-249-425-11	CARBON 4.7K 5% 1/4W	
R458	1-249-425-11	CARBON 4.7K 5% 1/4W	
R459	1-249-423-11	CARBON 3.3K 5% 1/4W	
R460	1-249-441-11	CARBON 100K 5% 1/4W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

CD MAIN | LOADING | MAIN | IC L | IC R

Ref.No.	Part No.	Description			Remark
R461	1-249-441-11	CARBON	100K	5% 1/4W	
R463	1-249-442-11	CARBON	510	5% 1/4W	
R464	1-249-442-11	CARBON	510	5% 1/4W	
R465	1-249-433-11	CARBON	22K	5% 1/4W	
R466	1-249-429-11	CARBON	10K	5% 1/4W	
R467	1-249-429-11	CARBON	10K	5% 1/4W	
R468	1-249-429-11	CARBON	10K	5% 1/4W	
		< CRYSTAL >			
X401	1-567-908-11	VIBRATOR, CRYSTAL (16MHz)			
**********					
*	1-632-202-11	LOADING BOARD			
		**********			
		< CONNECTOR >			
CN301 *	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			
		< SWITCH >			
S271	1-572-086-11	SWITCH, LEAF			
S272	1-572-086-11	SWITCH, LEAF			
**********					
*	A-4345-500-A	MAIN BOARD, COMPLETE (AEP)			
*	A-4345-493-A	MAIN BOARD, COMPLETE (IT)			
		**********			
*	1-638-716-11	IC L BOARD			
		**********			
*	1-638-717-11	IC R BOARD			
		**********			
*	1-560-060-00	PIN, CONNECTOR 2P			
*	3-346-266-12	PLATE, GROUND			
	7-682-548-04	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C302	1-124-477-11	ELECT	47uF	20% 16V	
C303	1-161-379-00	CERAMIC	0.01uF	30% 16V	
C305	1-161-379-00	CERAMIC	0.01uF	30% 16V	(IT)
C306	1-161-379-00	CERAMIC	0.01uF	30% 16V	(IT)
C307	1-161-379-00	CERAMIC	0.01uF	30% 16V	
C308	1-161-379-00	CERAMIC	0.01uF	30% 16V	
C309	1-161-379-00	CERAMIC	0.01uF	30% 16V	
C310	1-124-477-11	ELECT	47uF	20% 16V	
C311	1-161-379-00	CERAMIC	0.01uF	30% 25V	
C312	1-101-006-00	CERAMIC	0.047uF	50V	
C313	1-123-382-00	ELECT	3.3uF	20% 50V	

Ref.No.	Part No.	Description			Remark
C314	1-161-379-00	CERAMIC	0.01uF	30% 16V	
C315	1-161-329-00	CERAMIC	0.0068uF	30% 16V	
C316	1-162-282-31	CERAMIC	100PF	10% 50V	(AEP)
C316	1-162-290-31	CERAMIC	470PF	10% 50V	(IT)
C317	1-162-292-31	CERAMIC	680PF	10% 50V	(IT)
C318	1-124-903-11	ELECT	1uF	20% 50V	
C320	1-124-903-11	ELECT	1uF	20% 50V	
C321	1-124-902-00	ELECT	0.47uF	20% 50V	
C322	1-124-463-00	ELECT	0.1uF	20% 50V	
C323	1-161-329-00	CERAMIC	0.0068uF	30% 16V	
C324	1-161-329-00	CERAMIC	0.0068uF	30% 16V	
C325	1-124-477-11	ELECT	47uF	20% 16V	
C326	1-124-907-11	ELECT	10uF	20% 50V	
C327	1-161-379-00	CERAMIC	0.01uF	30% 16V	
C328	1-124-463-00	ELECT	0.1uF	20% 50V	
C329	1-124-927-11	ELECT	4.7uF	20% 50V	
C330	1-161-379-00	CERAMIC	0.01uF	30% 16V	
C331	1-126-176-11	ELECT	220uF	20% 10V	
C332	1-161-379-00	CERAMIC	0.01uF	30% 16V	
C335	1-161-379-00	CERAMIC	0.01uF	30% 16V	
C336	1-161-379-00	CERAMIC	0.01uF	30% 16V	
C339	1-162-210-31	CERAMIC	30PF	5% 50V	
C341	1-123-382-00	ELECT	3.3uF	20% 50V	
C342	1-123-382-00	ELECT	3.3uF	20% 50V	
C343	1-123-382-00	ELECT	3.3uF	20% 50V	
C344	1-123-382-00	ELECT	3.3uF	20% 50V	
C345	1-161-375-00	CERAMIC	0.0022uF	30% 16V	
C346	1-161-375-00	CERAMIC	0.0022uF	30% 16V	
C351	1-161-494-00	CERAMIC	0.022uF	25V	
C352	1-102-120-00	CERAMIC	0.0018uF	10% 50V	
C353	1-161-374-11	CERAMIC	0.0015uF	20% 50V	
C354	1-161-494-00	CERAMIC	0.022uF	25V	
C361	1-164-098-11	CERAMIC	0.047uF	12V	
C362	1-161-494-00	CERAMIC	0.022uF	25V	
C363	1-164-159-11	CERAMIC	0.1uF	50V	
C364	1-161-494-00	CERAMIC	0.022uF	25V	
C501	1-102-961-00	CERAMIC	27PF	5% 50V	
C502	1-102-961-00	CERAMIC	27PF	5% 50V	
C503	1-124-477-11	ELECT	47uF	20% 16V	
C504	1-161-379-00	CERAMIC	0.01uF	30% 16V	
C505	1-161-379-00	CERAMIC	0.01uF	30% 16V	
C506	1-161-379-00	CERAMIC	0.01uF	30% 16V	
C507	1-161-379-00	CERAMIC	0.01uF	30% 16V	
C521	1-124-925-11	ELECT	2.2uF	30% 50V	
C522	1-124-463-00	ELECT	0.1uF	20% 50V	
C523	1-161-379-00	CERAMIC	0.01uF	30% 16V	
C524	1-161-379-00	CERAMIC	0.01uF	30% 16V	
C525	1-124-477-11	ELECT	47uF	20% 16V	
C530	1-161-379-00	CERAMIC	0.01uF	30% 16V	(IT)

MAIN **IC L** **IC R**

Ref. No.	Part No.	Description			Remark
C531	1-136-173-00	FILM	0.47uF	5%	50V
C532	1-161-494-00	CERAMIC	0.022uF		25V
C533	1-124-463-00	ELECT	0.1uF	20%	50V
C1001	1-124-925-11	ELECT	2.2uF	20%	100V
C1002	1-162-282-31	CERAMIC	100PF	10%	50V
C1003	1-162-282-31	CERAMIC	100PF	10%	50V
C1004	1-124-477-11	ELECT	47uF	20%	16V
C1005	1-161-377-00	CERAMIC	0.0047uF	20%	16V
C1006	1-161-374-11	CERAMIC	0.0015uF	20%	16V
C1007	1-124-464-11	ELECT	0.22uF	20%	50V
C1008	1-124-477-11	ELECT	47uF	20%	16V
C1009	1-124-925-11	ELECT	2.2uF	20%	50V
C1010	1-124-477-11	ELECT	47uF	20%	16V
C1025	1-162-286-31	CERAMIC	220PF	10%	50V
C1051	1-124-925-11	ELECT	2.2uF	20%	50V
C1052	1-162-282-31	CERAMIC	100PF	10%	50V
C1053	1-162-282-31	CERAMIC	100PF	10%	50V
C1054	1-124-477-11	ELECT	47uF	20%	16V
C1055	1-161-377-00	CERAMIC	0.0047uF	20%	16V
C1056	1-161-374-11	CERAMIC	0.0015uF	20%	16V
C1057	1-124-464-11	ELECT	0.22uF	20%	50V
C1058	1-124-477-11	ELECT	47uF	20%	16V
C1059	1-124-925-11	ELECT	2.2uF	20%	50V
C1060	1-124-477-11	ELECT	47uF	20%	16V
C1075	1-162-286-31	CERAMIC	220PF	10%	50V
C1131	1-101-880-00	CERAMIC	47PF	5%	50V (IT)
C1132	1-101-880-00	CERAMIC	47PF	5%	50V (IT)
C1181	1-101-880-00	CERAMIC	47PF	5%	50V (IT)
C1182	1-101-880-00	CERAMIC	47PF	5%	50V (IT)
C1201	1-124-925-11	ELECT	2.2uF	20%	50V
C1202	1-162-282-31	CERAMIC	100PF	10%	50V
C1203	1-162-282-31	CERAMIC	100PF	10%	50V
C1204	1-124-477-11	ELECT	47uF	20%	16V
C1205	1-124-907-11	ELECT	10uF	20%	50V
C1206	1-136-163-00	FILM	0.068uF	5%	50V
C1207	1-136-163-00	FILM	0.068uF	5%	50V
C1209	1-124-907-11	ELECT	10uF	20%	50V
C1210	1-126-101-11	ELECT	100uF	20%	16V
C1211	1-126-101-11	ELECT	100uF	20%	16V
C1231	1-161-494-00	CERAMIC	0.022uF		25V (IT)
C1235	1-161-494-00	CERAMIC	0.022uF		25V (IT)
C1236	1-161-494-00	CERAMIC	0.022uF		25V (IT)
C1237	1-162-282-31	CERAMIC	100PF	10%	50V (IT)
C1238	1-162-282-31	CERAMIC	100PF	10%	50V (IT)
C1241	1-161-494-00	CERAMIC	0.022uF		25V (IT)
C1242	1-161-494-00	CERAMIC	0.022uF		25V (IT)
C1243	1-136-165-00	FILM	0.1uF	5%	50V
C1245	1-101-006-00	CERAMIC	0.047uF		50V (IT)
C1246	1-101-006-00	CERAMIC	0.047uF		50V (IT)

Ref. No.	Part No.	Description			Remark
C1247	1-101-006-00	CERAMIC	0.047uF		50V (IT)
C1248	1-101-006-00	CERAMIC	0.047uF		50V (IT)
C1249	1-161-494-00	CERAMIC	0.022uF		25V (IT)
C1250	1-161-494-00	CERAMIC	0.022uF		25V (IT)
C1251	1-124-925-11	ELECT	2.2uF	20%	50V
C1252	1-162-282-31	CERAMIC	100PF	10%	50V
C1253	1-162-282-31	CERAMIC	100PF	10%	50V
C1254	1-124-477-11	ELECT	47uF	20%	16V
C1255	1-124-907-11	ELECT	10uF	20%	50V
C1256	1-136-163-00	FILM	0.068uF	5%	50V
C1257	1-136-163-00	FILM	0.068uF	5%	50V
C1259	1-124-907-11	ELECT	10uF	20%	50V
C1284	1-136-165-00	FILM	0.1uF	5%	50V
C1293	1-136-165-00	FILM	0.1uF	5%	50V
C1295	1-101-005-00	CERAMIC	0.022uF		50V (IT)
C1296	1-161-494-00	CERAMIC	0.022uF		25V (IT)
C1297	1-162-282-31	CERAMIC	100PF	10%	50V (IT)
C1298	1-162-282-31	CERAMIC	100PF	10%	50V (IT)
C1302	1-102-394-11	CERAMIC	0.01uF		250V
C1304	1-126-413-11	ELECT	3300uF	20%	35V
C1305	1-126-413-11	ELECT	3300uF	20%	35V
C1306	1-124-477-11	ELECT	47uF	20%	16V
C1308	1-126-101-11	ELECT	100uF	20%	16V
C1309	1-126-101-11	ELECT	100uF	20%	16V
C1312	1-124-563-11	ELECT	2200uF	20%	25V
C1313	1-124-563-11	ELECT	2200uF	20%	25V
C1319	1-124-463-00	ELECT	0.1uF	20%	50V
C1320	1-124-907-11	ELECT	10uF	20%	50V
C1321	1-161-379-00	CERAMIC	0.01uF	30%	16V
C1322	1-161-379-00	CERAMIC	0.01uF	30%	16V
C1324	1-124-907-11	ELECT	10uF	20%	50V
C1326	1-124-907-11	ELECT	10uF	20%	50V
C1330	1-126-101-11	ELECT	100uF	20%	16V
C1331	1-102-394-11	CERAMIC	0.01uF		250V
C1341	1-124-907-11	ELECT	10uF	20%	50V
C1353	1-136-165-00	FILM	0.1uF	5%	50V
C1354	1-136-165-00	FILM	0.1uF	5%	50V

< FILTER >

CF301	1-567-389-11	FILTER, CERAMIC
CF302	1-567-389-11	FILTER, CERAMIC (IT)
CF303	1-567-389-11	FILTER, CERAMIC
CF304	1-577-075-11	OSCILLATOR, CERAMIC

< CONNECTOR >

CN501	* 1-568-830-11	SOCKET, CONNECTOR 11P

MAIN | IC L | IC R

Ref. No.	Part No.	Description	Remark
		< JACK >	
J1002	* 1-580-691-11	JACK, PIN 2P	
J1202	* 1-569-130-11	JACK, PIN 2P	
		< CONNECTOR >	
CN1201	1-537-326-11	TERMINAL BOARD (AEP)	
CN1201	1-537-327-11	TERMINAL BOARD (IT)	
CN1203	* 1-568-952-11	PIN, CONNECTOR 3P	
CN1204	* 1-568-834-11	SOCKET, CONNECTOR 15P	
CN1211	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN1212	* 1-564-508-11	PLUG, CONNECTOR 5P	
CN1225	* 1-569-994-11	PIN, CONNECTOR (PC BOARD)	
		< DIODE >	
D351	8-719-987-63	DIODE 1N4148M	
D1201	8-719-987-63	DIODE 1N4148M	
D1202	8-719-987-63	DIODE 1N4148M	
D1302	8-719-312-09	DIODE RBA-402	
D1303	8-719-200-82	DIODE 11ES2	
D1304	8-719-200-82	DIODE 11ES2	
D1305	8-719-200-82	DIODE 11ES2	
D1306	8-719-200-82	DIODE 11ES2	
D1321	8-719-987-63	DIODE 1N4148M	
D1341	8-719-001-76	DIODE UZL-12M3	
		< FRONT END >	
FE301	1-465-006-11	FRONT END (FM) (2 GANG) (AEP)	
FE301	1-463-857-21	FRONT END (FM) (IT)	
FE351	1-236-463-11	ENCAPSULATED COMPONENT	
FE352	1-236-462-11	ENCAPSULATED COMPONENT	
		< IC >	
IC301	8-759-821-45	IC LA1851N	
IC501	8-759-820-91	IC LC7218	
IC1001	8-759-634-51	IC M5218AP	
IC1002	8-759-000-48	IC MC14052BCP	
IC1003	8-759-634-51	IC M5218AP	
IC1201	8-759-502-33	IC SI-18752	
IC1251	8-759-502-33	IC SI-18752	
IC1303	8-759-604-86	IC M5F7807L	
IC1304	8-759-604-90	IC M5F7907L	
IC1305	8-759-820-13	IC L78MR06	
		< TRANSFORMER >	
IFT301	1-404-713-11	TRANSFORMER, IF	
		< COIL >	
L301	1-407-500-00	INDUCTOR 4.7mH	
L351	1-410-524-41	INDUCTOR 220uH	
L1201	1-420-872-00	COIL, AIR CORE (IT)	
L1251	1-420-872-00	COIL, AIR CORE (IT)	
		< FILTER >	
LPF301	1-235-164-00	FILTER, LOW PASS	
LPF302	1-235-164-00	FILTER, LOW PASS	
		< TRANSISTOR >	
Q301	8-729-230-XX	TRANSISTOR 2SC2669-OY (IT)	
Q302	8-729-230-XX	TRANSISTOR 2SC2669-OY (IT)	
Q303	8-729-230-XX	TRANSISTOR 2SC2669-OY	
Q304	8-729-230-XX	TRANSISTOR 2SC2669-OY	
Q305	8-729-900-80	TRANSISTOR DTC114ES	
Q306	8-729-900-61	TRANSISTOR DTA114ES	
Q307	8-729-900-80	TRANSISTOR DTC114ES	
Q308	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q309	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q351	8-729-900-80	TRANSISTOR DTC114ES	
Q352	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q353	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q354	8-729-900-80	TRANSISTOR DTC114ES	
Q355	8-729-900-80	TRANSISTOR DTC114ES	
Q356	8-729-900-80	TRANSISTOR DTC114ES	
Q501	8-729-900-80	TRANSISTOR DTC114ES	
Q502	8-729-900-61	TRANSISTOR DTA114ES	
Q521	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q522	8-729-201-84	TRANSISTOR 2SC3112-B	
Q531	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q532	8-729-201-84	TRANSISTOR 2SC3112-B	
Q1034	8-729-900-74	TRANSISTOR DTC143TS	
Q1035	8-729-900-74	TRANSISTOR DTC143TS	
Q1201	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1202	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1203	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1204	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1302	8-729-209-15	TRANSISTOR 2SD2012	
		< RESISTOR >	
R301	⚠ 1-249-401-11	CARBON 47 5% 1/4W F	
R302	1-249-413-11	CARBON 470 5% 1/4W	(AEP)
R303	1-249-411-11	CARBON 330 5% 1/4W	(IT)
R304	1-249-432-11	CARBON 18K 5% 1/4W	(IT)
R305	1-249-411-11	CARBON 330 5% 1/4W	(IT)
R306	1-249-434-11	CARBON 27K 5% 1/4W	(IT)
R307	1-249-414-11	CARBON 560 5% 1/4W	(IT)
R308	1-249-411-11	CARBON 330 5% 1/4W	
R309	1-249-432-11	CARBON 18K 5% 1/4W	
R310	1-249-411-11	CARBON 330 5% 1/4W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MAIN **IC L** **IC R**

Ref. No.	Part No.	Description				Remark
R311	1-249-434-11	CARBON	27K	5%	1/4W	
R312	1-249-414-11	CARBON	560	5%	1/4W	(AEP)
R312	1-249-416-11	CARBON	820	5%	1/4W	(IT)
R313	⚠ 1-249-405-11	CARBON	100	5%	1/4W F	
R314	1-249-437-11	CARBON	47K	5%	1/4W	(IT)
R315	⚠ 1-249-404-00	CARBON	82	5%	1/4W F	(IT)
R316	1-249-429-11	CARBON	10K	5%	1/4W	
R317	1-249-417-11	CARBON	1K	5%	1/4W	
R318	1-249-435-11	CARBON	33K	5%	1/4W	
R319	1-249-428-11	CARBON	8.2K	5%	1/4W	
R320	1-249-432-11	CARBON	18K	5%	1/4W	
R321	1-249-423-11	CARBON	3.3K	5%	1/4W	
R322	1-249-429-11	CARBON	10K	5%	1/4W	
R323	1-249-418-11	CARBON	1.2K	5%	1/4W	(AEP)
R323	1-249-417-11	CARBON	1K	5%	1/4W	(IT)
R324	1-249-429-11	CARBON	10K	5%	1/4W	
R325	1-249-429-11	CARBON	10K	5%	1/4W	
R326	⚠ 1-249-409-11	CARBON	220	5%	1/4W F	
R327	1-249-437-11	CARBON	47K	5%	1/4W	
R328	1-249-437-11	CARBON	47K	5%	1/4W	
R331	1-247-891-00	CARBON	330K	5%	1/4W	
R332	1-247-891-00	CARBON	330K	5%	1/4W	
R333	1-249-421-11	CARBON	2.2K	5%	1/4W	
R334	1-249-421-11	CARBON	2.2K	5%	1/4W	
R335	1-249-420-11	CARBON	1.8K	5%	1/4W	
R336	1-249-420-11	CARBON	1.8K	5%	1/4W	
R337	1-249-426-11	CARBON	5.6K	5%	1/4W	
R338	1-249-426-11	CARBON	5.6K	5%	1/4W	
R351	1-249-433-11	CARBON	22K	5%	1/4W	
R352	1-249-437-11	CARBON	47K	5%	1/4W	
R353	1-247-903-00	CARBON	1M	5%	1/4W	
R354	1-249-441-11	CARBON	100K	5%	1/4W	
R355	1-249-433-11	CARBON	22K	5%	1/4W	
R356	1-249-421-11	CARBON	2.2K	5%	1/4W	
R361	1-249-437-11	CARBON	47K	5%	1/4W	
R362	1-249-437-11	CARBON	47K	5%	1/4W	
R363	1-249-425-11	CARBON	4.7K	5%	1/4W	
R364	1-249-425-11	CARBON	4.7K	5%	1/4W	
R365	1-249-429-11	CARBON	10K	5%	1/4W	
R366	1-249-413-11	CARBON	470	5%	1/4W	
R367	1-249-434-11	CARBON	27K	5%	1/4W	
R368	1-249-433-11	CARBON	22K	5%	1/4W	
R501	1-249-417-11	CARBON	1K	5%	1/4W	
R502	1-249-417-11	CARBON	1K	5%	1/4W	
R503	1-249-417-11	CARBON	1K	5%	1/4W	
R504	1-249-417-11	CARBON	1K	5%	1/4W	
R505	1-249-429-11	CARBON	10K	5%	1/4W	
R506	1-249-417-11	CARBON	1K	5%	1/4W	
R510	⚠ 1-249-401-11	CARBON	47	5%	1/4W F	

Ref. No.	Part No.	Description				Remark
R511	1-249-429-11	CARBON	10K	5%	1/4W	
R512	1-249-425-11	CARBON	4.7K	5%	1/4W	
R513	1-249-417-11	CARBON	1K	5%	1/4W	
R514	1-249-429-11	CARBON	10K	5%	1/4W	
R515	1-249-417-11	CARBON	1K	5%	1/4W	
R521	1-249-423-11	CARBON	3.3K	5%	1/4W	
R522	1-249-425-11	CARBON	4.7K	5%	1/4W	
R523	1-249-414-11	CARBON	560	5%	1/4W	
R524	1-249-417-11	CARBON	1K	5%	1/4W	
R525	1-249-410-11	CARBON	270	5%	1/4W	
R526	1-249-421-11	CARBON	2.2K	5%	1/4W	
R527	1-249-425-11	CARBON	4.7K	5%	1/4W	
R528	1-249-425-11	CARBON	4.7K	5%	1/4W	
R529	1-249-405-11	CARBON	100	5%	1/4W	
R530	⚠ 1-249-405-11	CARBON	100	5%	1/4W F	
R531	1-249-423-11	CARBON	3.3K	5%	1/4W	
R532	1-249-433-11	CARBON	22K	5%	1/4W	
R533	1-249-414-11	CARBON	560	5%	1/4W	
R534	1-249-417-11	CARBON	1K	5%	1/4W	
R535	1-249-410-11	CARBON	270	5%	1/4W	
R536	1-249-421-11	CARBON	2.2K	5%	1/4W	
R537	1-249-425-11	CARBON	4.7K	5%	1/4W	
R538	1-249-405-11	CARBON	100	5%	1/4W	
R1001	1-249-417-11	CARBON	1K	5%	1/4W	
R1002	1-249-441-11	CARBON	100K	5%	1/4W	
R1003	1-249-416-11	CARBON	820	5%	1/4W	
R1004	1-247-897-11	CARBON	560K	5%	1/4W	
R1005	1-249-437-11	CARBON	47K	5%	1/4W	
R1006	1-249-409-11	CARBON	220	5%	1/4W	
R1007	1-249-441-11	CARBON	100K	5%	1/4W	
R1008	1-249-409-11	CARBON	220	5%	1/4W	
R1011	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1014	1-249-437-11	CARBON	47K	5%	1/4W	
R1015	1-249-437-11	CARBON	47K	5%	1/4W	
R1016	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1017	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1021	1-249-434-11	CARBON	27K	5%	1/4W	
R1023	1-249-434-11	CARBON	27K	5%	1/4W	
R1024	1-249-417-11	CARBON	1K	5%	1/4W	
R1034	1-249-417-11	CARBON	1K	5%	1/4W	
R1051	1-249-417-11	CARBON	1K	5%	1/4W	
R1052	1-249-441-11	CARBON	100K	5%	1/4W	
R1053	1-249-416-11	CARBON	820	5%	1/4W	
R1054	1-247-897-11	CARBON	560K	5%	1/4W	
R1055	1-249-437-11	CARBON	47K	5%	1/4W	
R1056	1-249-409-11	CARBON	220	5%	1/4W	
R1057	1-249-441-11	CARBON	100K	5%	1/4W	
R1058	1-249-409-11	CARBON	220	5%	1/4W	
R1061	1-249-428-11	CARBON	8.2K	5%	1/4W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MAIN | IC L | IC R | TC MAIN

Ref. No.	Part No.	Description				Remark
R1071	1-249-434-11	CARBON	27K	5%	1/4W	
R1073	1-249-434-11	CARBON	27K	5%	1/4W	
R1074	1-249-417-11	CARBON	1K	5%	1/4W	
R1096	1-247-727-11	CARBON	10	5%	1/2W	
R1201	1-249-417-11	CARBON	1K	5%	1/4W	
R1202	1-249-434-11	CARBON	27K	5%	1/4W	
R1203	1-249-414-11	CARBON	560	5%	1/4W	
R1204	1-249-434-11	CARBON	27K	5%	1/4W	
R1205	1-249-393-11	CARBON	10	5%	1/4W	
R1210	1-249-441-11	CARBON	100K	5%	1/4W	
R1211	1-249-389-11	CARBON	4.7	5%	1/4W	
R1212	1-249-438-11	CARBON	56K	5%	1/4W	
R1213	1-249-438-11	CARBON	56K	5%	1/4W	
R1221	⚠1-215-887-00	METAL OXIDE	150	5%	2W F	
R1222	1-249-397-11	CARBON	22	5%	1/4W	(IT)
R1223	1-249-397-11	CARBON	22	5%	1/4W	(IT)
R1231	1-249-393-11	CARBON	10	5%	1/4W	
R1241	1-249-385-11	CARBON	2.2	5%	1/4W	(IT)
R1242	1-249-385-11	CARBON	2.2	5%	1/4W	(IT)
R1243	1-249-385-11	CARBON	2.2	5%	1/4W	(IT)
R1244	1-249-385-11	CARBON	2.2	5%	1/4W	(IT)
R1251	1-249-417-11	CARBON	1K	5%	1/4W	
R1252	1-249-434-11	CARBON	27K	5%	1/4W	
R1253	1-249-414-11	CARBON	560	5%	1/4W	
R1254	1-249-434-11	CARBON	27K	5%	1/4W	
R1255	1-249-393-11	CARBON	10	5%	1/4W	
R1263	1-249-437-11	CARBON	47K	5%	1/4W	
R1272	1-249-397-11	CARBON	22	5%	1/4W	(IT)
R1273	1-249-397-11	CARBON	22	5%	1/4W	(IT)
R1281	1-249-393-11	CARBON	10	5%	1/4W	
R1321	1-249-417-11	CARBON	1K	5%	1/4W	
R1322	1-249-429-11	CARBON	10K	5%	1/4W	
R1345	1-249-422-11	CARBON	2.7K	5%	1/4W	
		< VARIABLE RESISTOR >				
RV301	1-238-601-11	RES, ADJ, CARBON, 22K				
RV302	1-238-601-11	RES, ADJ, CARBON, 22K				
		< RELAY >				
RY1201	1-515-533-11	RELAY				
		< TRANSFORMER >				
T301	1-404-807-11	TRANSFORMER, DISCRIMINATOR				
T302	1-235-126-00	ENCAPSULATED COMPONENT (IT)				
		< TERMINAL >				
TM301	* 1-537-264-11	TERMINAL BOARD (AEP)				
TM301	* 1-537-288-11	TERMINAL BOARD (PAL) (IT)				

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
TP1	* 1-560-060-00	PIN, CONNECTOR 2P			
		< CRYSTAL >			
XT501	1-577-126-11	VIBRATOR, CRYSTAL (7.2MHz)			
**********					
	* A-2006-377-A	MAIN TC BOARD, COMPLETE			
		**********			
	1-535-888-11	JUMPER, FILM (WITH TERMINAL)			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
		< CAPACITOR >			
C400	1-162-289-31	CERAMIC	390PF	10%	50V
C401	1-136-157-00	FILM	0.022uF	5%	50V
C402	1-124-767-00	ELECT	2.2uF	20%	50V
C403	1-124-443-00	ELECT	100uF	20%	10V
C404	1-162-289-31	CERAMIC	390PF	10%	50V
C405	1-136-157-00	FILM	0.022uF	5%	50V
C406	1-124-767-00	ELECT	2.2uF	20%	50V
C407	1-124-443-00	ELECT	100uF	20%	10V
C408	1-130-479-00	MYLAR	0.0047uF	5%	50V
C409	1-162-289-31	CERAMIC	390PF	10%	50V
C410	1-124-903-11	ELECT	1uF	20%	50V
C411	1-124-925-11	ELECT	2.2uF	20%	50V
C413	1-124-472-11	ELECT	470uF	20%	10V
C414	1-131-587-11	TANTALUM	0.68uF	10%	35V
C415	1-124-925-11	ELECT	2.2uF	20%	50V
C416	1-124-927-11	ELECT	4.7uF	20%	50V
C417	1-124-902-00	ELECT	0.47uF	20%	50V
C418	1-124-907-11	ELECT	10uF	20%	50V
C419	1-124-907-11	ELECT	10uF	20%	50V
C420	1-124-907-11	ELECT	10uF	20%	50V
C421	1-162-284-31	CERAMIC	150PF	10%	50V
C422	1-136-273-91	FILM	75PF	5%	630V
C423	1-136-271-00	FILM	56PF	5%	630V
C424	1-162-280-31	CERAMIC	82PF	10%	50V
C441	1-162-282-31	CERAMIC	100PF	10%	50V
C442	1-164-159-11	CERAMIC	0.1uF		50V
C443	1-124-903-11	ELECT	1uF	20%	50V
C446	1-162-282-31	CERAMIC	100PF	10%	50V
C500	1-162-289-31	CERAMIC	390PF	10%	50V
C501	1-136-157-00	FILM	0.022uF	5%	50V
C502	1-124-767-00	ELECT	2.2uF	20%	50V
C503	1-124-443-00	ELECT	100uF	20%	10V
C504	1-162-289-31	CERAMIC	390PF	10%	50V

Ref. No.	Part No.	Description			Remark
C505	1-136-157-00	FILM	0.022uF	5%	50V
C506	1-124-767-00	ELECT	2.2uF	20%	50V
C507	1-124-443-00	ELECT	100uF	20%	10V
C508	1-130-479-00	MYLAR	0.0047uF	5%	50V
C509	1-162-289-31	CERAMIC	390PF	10%	50V
C511	1-124-925-11	ELECT	2.2uF	20%	50V
C513	1-124-472-11	ELECT	470uF	20%	10V
C514	1-131-587-11	TANTALUM	0.68uF	10%	35V
C515	1-124-925-11	ELECT	2.2uF	20%	50V
C516	1-124-927-11	ELECT	4.7uF	20%	50V
C517	1-124-902-00	ELECT	0.47uF	20%	50V
C518	1-124-907-11	ELECT	10uF	20%	50V
C520	1-124-907-11	ELECT	10uF	20%	50V
C521	1-162-284-31	CERAMIC	150PF	10%	50V
C522	1-136-273-91	FILM	75PF	5%	630V
C523	1-136-271-00	FILM	56PF	5%	630V
C524	1-162-280-31	CERAMIC	82PF	10%	50V
C525	1-136-562-11	FILM	0.0082uF	5%	630V
C526	1-130-482-00	MYLAR	0.0082uF	5%	50V
C528	1-130-482-00	MYLAR	0.0082uF	5%	50V
C529	1-130-478-00	MYLAR	0.0039uF	5%	50V
C530	1-130-478-00	MYLAR	0.0039uF	5%	50V
C531	1-124-902-00	ELECT	0.47uF	20%	50V
C533	1-124-556-11	ELECT	2200uF	20%	16V
C534	1-124-120-11	ELECT	220uF	20%	16V
C535	1-124-927-11	ELECT	4.7uF	20%	50V
C536	1-124-903-11	ELECT	1uF	20%	50V
C540	1-124-472-11	ELECT	470uF	20%	10V
C541	1-162-282-31	CERAMIC	100PF	10%	50V
C542	1-164-159-11	CERAMIC	0.1uF		50V
C546	1-162-282-31	CERAMIC	100PF	10%	50V
C560	1-124-472-11	ELECT	470uF	20%	10V

< CONNECTOR >

CN400	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN401	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN402	* 1-564-505-11	PLUG, CONNECTOR 2P	
CN405	* 1-560-061-00	PIN, CONNECTOR 3P	
CN407	* 1-560-060-00	PIN, CONNECTOR 2P	
CN410	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN411	* 1-564-508-11	PLUG, CONNECTOR 5P	
CN412	* 1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P	

< DIODE >

D500	8-719-987-63	DIODE	1N4148M
D501	8-719-987-63	DIODE	1N4148M
D502	8-719-987-63	DIODE	1N4148M
D503	8-719-987-63	DIODE	1N4148M
D504	8-719-987-63	DIODE	1N4148M
D505	8-719-987-63	DIODE	1N4148M
D506	8-719-987-63	DIODE	1N4148M
D507	8-719-987-63	DIODE	1N4148M

< IC >

IC400	8-759-111-44	IC	uPC4570C-1
IC401	8-759-111-44	IC	uPC4570C-1
IC402	8-759-000-49	IC	MC14066BCP
IC403	8-752-034-19	IC	CXA1100P
IC404	8-752-038-02	IC	CXA1198AP
IC501	8-759-140-11	IC	MC14011BCP
IC502	8-759-040-01	IC	MC14001BCP
IC503	8-759-140-11	IC	MC14011BCP
IC515	8-759-604-86	IC	M5F7807L
IC516	8-759-604-90	IC	M5F7907L

< COIL >

L400	1-410-780-11	INDUCTOR	27mH
L500	1-410-780-11	INDUCTOR	27mH

< TRANSISTOR >

Q400	8-729-900-89	TRANSISTOR	DTC144ES
Q401	8-729-900-89	TRANSISTOR	DTC144ES
Q402	8-729-119-78	TRANSISTOR	2SC2785-HFE
Q403	8-729-119-78	TRANSISTOR	2SC2785-HFE
Q500	8-729-900-89	TRANSISTOR	DTC144ES
Q502	8-729-119-78	TRANSISTOR	2SC2785-HFE
Q503	8-729-119-78	TRANSISTOR	2SC2785-HFE
Q504	8-729-194-57	TRANSISTOR	2SC945-P
Q505	8-729-194-57	TRANSISTOR	2SC945-P
Q506	8-729-281-52	TRANSISTOR	2SC1815-Y
Q507	8-729-900-61	TRANSISTOR	DTA114ES
Q508	8-729-900-80	TRANSISTOR	DTC114ES
Q509	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q511	8-729-900-65	TRANSISTOR	DTA144ES
Q512	8-729-900-89	TRANSISTOR	DTC144ES

< RESISTOR >

R415	1-215-460-00	METAL	43K	1%	1/4W
R417	1-249-437-11	CARBON	47K	5%	1/4W
R418	1-247-838-00	CARBON	2K	5%	1/4W
R431	1-249-435-11	CARBON	33K	5%	1/4W
R432	1-247-868-11	CARBON	36K	5%	1/4W
R433	1-247-883-00	CARBON	150K	5%	1/4W
R436	1-249-437-11	CARBON	47K	5%	1/4W
R437	1-249-437-11	CARBON	47K	5%	1/4W
R438	1-247-874-11	CARBON	62K	5%	1/4W
R439	1-249-440-11	CARBON	82K	5%	1/4W
R441	1-247-882-11	CARBON	130K	5%	1/4W

TC MAIN | PANEL | H.P | SW | LED

Ref. No.	Part No.	Description			Remark
R442	1-249-435-11	CARBON	33K	5%	1/4W
R443	1-247-868-11	CARBON	36K	5%	1/4W
R446	1-249-438-11	CARBON	56K	5%	1/4W
R450	1-247-868-11	CARBON	36K	5%	1/4W
R451	1-247-872-11	CARBON	51K	5%	1/4W
R452	1-249-437-11	CARBON	47K	5%	1/4W
R453	1-247-881-00	CARBON	120K	5%	1/4W
R517	1-249-437-11	CARBON	47K	5%	1/4W
R518	1-247-838-00	CARBON	2K	5%	1/4W
R527	1-249-441-11	CARBON	100K	5%	1/4W
R532	1-249-393-11	CARBON	10	5%	1/4W
R538	1-249-385-11	CARBON	2.2	5%	1/4W
R539	1-249-392-11	CARBON	8.2	5%	1/4W
R540	1-249-392-11	CARBON	8.2	5%	1/4W
		< VARIABLE RESISTOR >			
RV400	1-238-600-11	RES, ADJ, CARBON 10K			
RV401	1-238-600-11	RES, ADJ, CARBON 10K			
RV402	1-238-600-11	RES, ADJ, CARBON 10K			
RV403	1-238-603-11	RES, ADJ, CARBON 100K			
RV500	1-238-600-11	RES, ADJ, CARBON 10K			
RV501	1-238-600-11	RES, ADJ, CARBON 10K			
RV502	1-238-600-11	RES, ADJ, CARBON 10K			
RV503	1-238-603-11	RES, ADJ, CARBON 100K			
RV504	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV505	1-238-598-11	RES, ADJ, CARBON 2.2K			
		< RELAY >			
RY400	1-515-614-11	RELAY			
		< TRANSFORMER >			
T500	1-433-349-11	TRANSFORMER, BIAS OSCILLATION			
		**********			
	* A-4345-503-A	PANEL BOARD, COMPLETE (AEP)			
	* A-4345-498-A	PANEL BOARD, COMPLETE (IT)			
		**********			
	* 1-637-656-11	H.P BOARD			
		*********			
	* 1-637-658-11	SW BOARD			
		********			
	* 1-637-659-11	LED BOARD			
		*********			
	* 4-921-941-01	CUSHION (FL)			
	* 4-930-781-11	HOLDER (VO), LED			
	* 4-942-285-01	HOLDER (FU), LED			
	* 4-942-301-01	HOLDER, FL TUBE			

Ref. No.	Part No.	Description			Remark
		< CAPACITOR >			
C603	1-136-169-00	FILM	0.22uF	5%	50V
C604	1-161-379-00	CERAMIC	0.01uF	30%	16V
C605	1-125-486-11	DUBLE LAYERS	0.22F		5.5V
C606	1-164-159-11	CERAMIC	0.1uF		50V
C607	1-124-907-11	ELECT	10uF	20%	50V
C608	1-161-379-00	CERAMIC	0.01uF	30%	16V
C609	1-161-379-00	CERAMIC	0.01uF	30%	16V
C701	1-124-903-11	ELECT	1uF	20%	50V
C1101	1-124-257-00	ELECT	2.2uF	20%	50V
C1102	1-124-589-11	ELECT	47uF	20%	16V
C1103	1-162-282-31	CERAMIC	100PF	10%	50V
C1104	1-124-257-00	ELECT	2.2uF	20%	50V
C1105	1-124-464-11	ELECT	0.22uF	20%	50V
C1106	1-136-161-00	FILM	0.047uF	5%	50V
C1107	1-136-155-00	FILM	0.015uF	5%	50V
C1108	1-136-155-00	FILM	0.015uF	5%	50V
C1109	1-130-480-00	MYLAR	0.0056uF	5%	50V
C1110	1-161-327-00	CERAMIC	0.0033uF	20%	16V
C1111	1-136-155-00	FILM	0.015uF	5%	50V
C1112	1-136-157-00	FILM	0.022uF	5%	50V
C1113	1-136-153-00	FILM	0.01uF	5%	50V
C1114	1-161-377-00	CERAMIC	0.0047uF	20%	16V
C1115	1-124-257-00	ELECT	2.2uF	20%	50V
C1120	1-161-379-00	CERAMIC	0.01uF	30%	16V
C1121	1-161-379-00	CERAMIC	0.01uF	30%	16V
C1123	1-162-286-31	CERAMIC	220PF	10%	50V
C1151	1-124-257-00	ELECT	2.2uF	20%	50V
C1152	1-124-589-11	ELECT	47uF	20%	16V
C1153	1-162-282-31	CERAMIC	100PF	10%	50V
C1154	1-124-257-00	ELECT	2.2uF	20%	50V
C1155	1-124-464-11	ELECT	0.22uF	20%	50V
C1156	1-136-161-00	FILM	0.047uF	5%	50V
C1157	1-136-155-00	FILM	0.015uF	5%	50V
C1158	1-136-155-00	FILM	0.015uF	5%	50V
C1159	1-130-480-00	MYLAR	0.0056uF	5%	50V
C1160	1-161-327-00	CERAMIC	0.0033uF	20%	16V
C1161	1-136-155-00	FILM	0.015uF	5%	50V
C1162	1-136-157-00	FILM	0.022uF	5%	50V
C1163	1-136-153-00	FILM	0.01uF	5%	50V
C1164	1-161-377-00	CERAMIC	0.0047uF	20%	16V
C1165	1-124-257-00	ELECT	2.2uF	20%	50V
C1173	1-162-286-31	CERAMIC	220PF	10%	50V
C1237	1-162-282-31	CERAMIC	100PF	10%	50V (IT)
C1238	1-162-282-31	CERAMIC	100PF	10%	50V (IT)
		< CONNECTOR >			
CN601	* 1-568-830-11	SOCKET, CONNECTOR 11P			

PANEL H.P SW LED

Ref. No.	Part No.	Description	Remark
CN1101 *	1-568-834-11	SOCKET, CONNECTOR 15P	
CN1202 *	1-564-520-11	PLUG, CONNECTOR 5P	
CN701 *	1-568-833-11	SOCKET, CONNECTOR 14P	
		< JACK >	
CNJ1201	1-569-113-11	JACK, LARGE TYPE	
		< DIODE >	
D601	8-719-987-63	DIODE 1N4148M	
D602	8-719-010-26	DIODE UZ-3.9BSB	
D603	8-719-987-63	DIODE 1N4148M	
D604	8-719-987-63	DIODE 1N4148M	
D611	8-719-987-63	DIODE 1N4148M	
D612	8-719-987-63	DIODE 1N4148M	
D613	8-719-987-63	DIODE 1N4148M	
D614	8-719-987-63	DIODE 1N4148M	
D618	8-719-987-63	DIODE 1N4148M	
D621	8-719-987-63	DIODE 1N4148M (IT)	
D624	8-719-987-63	DIODE 1N4148M (IT)	
D625	8-719-987-63	DIODE 1N4148M	
D626	8-719-987-63	DIODE 1N4148M	
D641	8-719-200-82	DIODE 11ES2	
D701	8-719-301-38	LED SEL2210S-C (HIGH SPEED)	
D702	8-719-301-38	LED SEL2210S-C (RECORD)	
D1131	8-719-301-38	LED SEL2210S-C (CD)	
D1132	8-719-301-38	LED SEL2210S-C (PHONO)	
D1133	8-719-301-38	LED SEL2210S-C (TUNER)	
D1134	8-719-301-38	LED SEL2210S-C (TAPE)	
D1145	8-719-301-38	LED SEL2210S-C (VOLUME)	
D1151	8-719-987-63	DIODE 1N4148M	
D1152	8-719-987-63	DIODE 1N4148M	
		< INDICATOR TUBE >	
FL601	1-519-595-21	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC601	8-759-154-08	IC uPD75212ACW-276	
IC602	8-749-920-83	IC GP1U52XB	
IC1101	8-759-634-51	IC M5218AP	
IC1102	8-759-634-51	IC M5218AP	
IC1103	8-759-820-62	IC LB1639	
IC1104	8-759-916-12	IC SN74HC00AN	
		< COIL >	
L601	1-410-521-11	INDUCTOR 100uH	

Ref. No.	Part No.	Description	Remark
		< TRANSISTOR >	
Q601	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q602	8-729-900-80	TRANSISTOR DTC114ES	
Q701	8-729-900-89	TRANSISTOR DTC144ES	
Q702	8-729-900-89	TRANSISTOR DTC144ES	
Q703	8-729-900-89	TRANSISTOR DTC144ES	
Q1101	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1102	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q1136	8-729-900-36	TRANSISTOR DTC124ES	
Q1138	8-729-900-36	TRANSISTOR DTC124ES	
Q1139	8-729-900-36	TRANSISTOR DTC124ES	
Q1141	8-729-900-63	TRANSISTOR DTA124ES	
Q1143	8-729-900-80	TRANSISTOR DTC114ES	
Q1144	8-729-900-80	TRANSISTOR DTC114ES	
Q1145	8-729-900-61	TRANSISTOR DTA114ES	
Q1151	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1152	8-729-141-26	TRANSISTOR 2SC3622A-LK	
		< RESISTOR >	
R601	1-249-429-11	CARBON 10K 5% 1/4W	
R602	1-249-429-11	CARBON 10K 5% 1/4W	
R603	1-249-423-11	CARBON 3.3K 5% 1/4W	
R604	1-249-437-11	CARBON 47K 5% 1/4W	
R605	1-249-433-11	CARBON 22K 5% 1/4W	
R606	1-249-433-11	CARBON 22K 5% 1/4W	
R607	1-249-439-11	CARBON 68K 5% 1/4W	
R608	1-249-417-11	CARBON 1K 5% 1/4W	
R609	1-249-405-11	CARBON 100 5% 1/4W	
R610	1-249-429-11	CARBON 10K 5% 1/4W	
R611	1-249-437-11	CARBON 47K 5% 1/4W	
R612	1-249-417-11	CARBON 1K 5% 1/4W	
R701	1-249-417-11	CARBON 1K 5% 1/4W	
R702	1-249-437-11	CARBON 47K 5% 1/4W	
R703	1-249-424-11	CARBON 3.9K 5% 1/4W	
R704	1-249-427-11	CARBON 6.8K 5% 1/4W	
R705	1-249-421-11	CARBON 2.2K 5% 1/4W	
R706	1-249-416-11	CARBON 820 5% 1/4W	
R707	1-249-423-11	CARBON 3.3K 5% 1/4W	
R708	1-249-414-11	CARBON 560 5% 1/4W	
R709	1-249-414-11	CARBON 560 5% 1/4W	
R1101	1-249-441-11	CARBON 100K 5% 1/4W	
R1102	1-249-417-11	CARBON 1K 5% 1/4W	
R1103	1-249-431-11	CARBON 15K 5% 1/4W	
R1104	1-249-441-11	CARBON 100K 5% 1/4W	
R1105	1-249-433-11	CARBON 22K 5% 1/4W	
R1106	1-249-424-11	CARBON 3.9K 5% 1/4W	
R1107	1-249-441-11	CARBON 100K 5% 1/4W	
R1108	1-249-427-11	CARBON 6.8K 5% 1/4W	

PANEL H.P SW LED POWER(A)

Ref. No.	Part No.	Description			Remark
R1109	1-249-412-11	CARBON	390	5% 1/4W	
R1110	1-249-431-11	CARBON	15K	5% 1/4W	
R1111	1-249-439-11	CARBON	68K	5% 1/4W	
R1112	1-249-433-11	CARBON	22K	5% 1/4W	
R1113	1-249-431-11	CARBON	15K	5% 1/4W	
R1114	1-249-429-11	CARBON	10K	5% 1/4W	
R1115	1-249-429-11	CARBON	10K	5% 1/4W	
R1116	1-247-852-11	CARBON	7.5K	5% 1/4W	
R1117	1-247-852-11	CARBON	7.5K	5% 1/4W	
R1118	1-249-425-11	CARBON	4.7K	5% 1/4W	
R1119	1-249-425-11	CARBON	4.7K	5% 1/4W	
R1120	1-249-423-11	CARBON	3.3K	5% 1/4W	
R1121	1-249-423-11	CARBON	3.3K	5% 1/4W	
R1122	1-247-887-00	CARBON	220K	5% 1/4W	
R1123	1-249-421-11	CARBON	2.2K	5% 1/4W	
R1124	1-249-425-11	CARBON	4.7K	5% 1/4W	
R1125	1-249-433-11	CARBON	22K	5% 1/4W	
R1131	1-249-413-11	CARBON	470	5% 1/4W	
R1132	1-249-413-11	CARBON	470	5% 1/4W	
R1133	1-249-413-11	CARBON	470	5% 1/4W	
R1134	1-249-413-11	CARBON	470	5% 1/4W	
R1135	1-249-433-11	CARBON	22K	5% 1/4W	
R1145	1-249-413-11	CARBON	470	5% 1/4W	
R1151	1-249-441-11	CARBON	100K	5% 1/4W	
R1152	1-249-417-11	CARBON	1K	5% 1/4W	
R1154	1-249-441-11	CARBON	100K	5% 1/4W	
R1155	1-249-433-11	CARBON	22K	5% 1/4W	
R1156	1-249-424-11	CARBON	3.9K	5% 1/4W	
R1157	1-249-441-11	CARBON	100K	5% 1/4W	
R1158	1-249-427-11	CARBON	6.8K	5% 1/4W	
R1159	1-249-412-11	CARBON	390	5% 1/4W	
R1160	1-249-431-11	CARBON	15K	5% 1/4W	
R1161	1-249-439-11	CARBON	68K	5% 1/4W	
R1162	1-249-433-11	CARBON	22K	5% 1/4W	
R1163	1-249-431-11	CARBON	15K	5% 1/4W	
R1164	1-249-429-11	CARBON	10K	5% 1/4W	
R1165	1-249-429-11	CARBON	10K	5% 1/4W	
R1166	1-247-852-11	CARBON	7.5K	5% 1/4W	
R1167	1-247-852-11	CARBON	7.5K	5% 1/4W	
R1168	1-249-425-11	CARBON	4.7K	5% 1/4W	
R1169	1-249-425-11	CARBON	4.7K	5% 1/4W	
R1170	1-249-423-11	CARBON	3.3K	5% 1/4W	
R1171	1-249-423-11	CARBON	3.3K	5% 1/4W	
R1172	1-247-887-00	CARBON	220K	5% 1/4W	
R1173	1-249-421-11	CARBON	2.2K	5% 1/4W	
R1174	1-249-425-11	CARBON	4.7K	5% 1/4W	
R1206	1-249-415-11	CARBON	680	5% 1/4W	
R1207	1-249-415-11	CARBON	680	5% 1/4W	
R1256	1-249-415-11	CARBON	680	5% 1/4W	
R1257	1-249-415-11	CARBON	680	5% 1/4W	

< VARIABLE RESISTOR >

RV1101	1-241-353-11	RES, VAR, CARBON 100K/100K (SURROUND)
RV1102	1-241-353-11	RES, VAR, CARBON 100K/100K (DBFB)
RV1103	1-241-351-11	RES, VAR, SLIDE 100K/100K (10KHz)
RV1104	1-241-351-11	RES, VAR, SLIDE 100K/100K (3.3KHz)
RV1105	1-241-351-11	RES, VAR, SLIDE 100K/100K (1KHz)
RV1106	1-241-351-11	RES, VAR, SLIDE 100K/100K (330Hz)
RV1107	1-241-351-11	RES, VAR, SLIDE 100K/100K (100Hz)
RV1108	1-241-352-11	RES, VAR, CARBON 100K/100K (BALANCE)
RV1109	1-241-350-11	RES, VAR, CARBON 100K/100K (VOLUME)

< SWITCH >

S601	1-554-303-21	SWITCH, KEY BOARD (1)
S602	1-554-303-21	SWITCH, KEY BOARD (2)
S603	1-554-303-21	SWITCH, KEY BOARD (3)
S604	1-554-303-21	SWITCH, KEY BOARD (4)
S605	1-554-303-21	SWITCH, KEY BOARD (5)
S606	1-554-303-21	SWITCH, KEY BOARD (6)
S607	1-554-303-21	SWITCH, KEY BOARD (7)
S608	1-554-303-21	SWITCH, KEY BOARD (8)
S609	1-554-303-21	SWITCH, KEY BOARD (9)
S610	1-554-303-21	SWITCH, KEY BOARD (0)
S614	1-554-303-21	SWITCH, KEY BOARD (DUAL MODE TUNING +)
S615	1-554-303-21	SWITCH, KEY BOARD (DUAL MODE TUNING -)
S616	1-554-303-21	SWITCH, KEY BOARD (SHIFT)
S617	1-554-303-21	SWITCH, KEY BOARD (BAND SELECTOR)
S618	1-554-303-21	SWITCH, KEY BOARD (ST/MUTE)
S619	1-554-303-21	SWITCH, KEY BOARD (MEMORY)
S636	1-554-303-21	SWITCH, KEY BOARD (TAPE)
S637	1-554-303-21	SWITCH, KEY BOARD (CD)
S638	1-554-303-21	SWITCH, KEY BOARD (TUNER)
S639	1-554-303-21	SWITCH, KEY BOARD (PHONO)
S701	1-572-606-11	SWITCH, PUSH (3 KEY)

< CRYSTAL >

X601	1-567-775-11	VIBRATOR, CERAMIC (4.19MHz)

****

* 1-638-711-12 POWER (A) BOARD
****

1-533-217-31 HOLDER, FUSE
1-535-139-00 BASE POST 22MM (10MM PITCH) 2P
1-535-476-11 TERMINAL

POWER(A)

Ref. No.	Part No.	Description			Remark
		< CAPACITOR >			
C1301	1-161-744-00	CERAMIC	0.01uF		400V
C1314	1-124-122-11	ELECT	100uF	20%	50V
C1315	1-124-927-11	ELECT	4.7uF	20%	50V
C1316	1-124-910-11	ELECT	47uF	20%	35V
C1348	1-164-159-11	CERAMIC	0.1uF		50V
C1351	1-124-122-11	ELECT	100uF	20%	35V
C1352	1-126-105-11	ELECT	1000uF	20%	35V
C1361	1-124-122-11	ELECT	100uF	20%	35V
		< CONNECTOR >			
CN1301 *	1-564-521-11	PLUG, CONNECTOR 6P			
CN1302 *	1-564-507-11	PLUG, CONNECTOR 4P			
		< DIODE >			
D1307	8-719-002-60	DIODE UZL-33L			
D1309	8-719-014-66	DIODE UZP-5.6B			
D1311	8-719-200-82	DIODE 11ES2			
D1318	8-719-200-82	DIODE 11ES2			
D1319	8-719-200-82	DIODE 11ES2			
D1368	8-719-200-82	DIODE 11ES2			
D1369	8-719-200-82	DIODE 11ES2			
		< FUSE >			
F1301	1-532-237-00	FUSE, TIME LAG (T3.15A)			
F1302	1-532-237-00	FUSE, TIME LAG (T3.15A)			
F1303	1-532-350-00	FUSE (T4.0A)			
F1304	1-532-350-00	FUSE (T4.0A)			
		< TRANSISTOR >			
Q1301	8-729-111-67	TRANSISTOR 2SB1094-L			
		< RESISTOR >			
R1303	1-249-421-11	CARBON	2.2K	5%	1/4W
R1304	1-249-425-11	CARBON	4.7K	5%	1/4W
		MISCELLANEOUS			
7	1-575-906-11	WIRE, FLAT TYPE (15 CORE)			
8	1-590-459-11	WIRE, FLAT TYPE (11 CORE)			
15	⚠1-555-750-00	CORD, POWER			
23	1-590-901-11	WIRE, FLAT TYPE (22 CORE)			
306	⚠8-848-144-11	DEVICE, OPTICAL KSS-240A			
307	1-575-001-11	WIRE, FLAT TYPE (12 CORE)			
HE1	1-543-673-11	HEAD, MAGNETIC (ERASE) (DECK B)			
HP1	1-543-319-11	HEAD, MAGNETIC (PB) (DECK A)			
HRP1	1-543-319-11	HEAD, MAGNETIC (REC/PB) (DECK B)			
M1	X-3362-377-1	MOTOR (WH) ASSY			
M101	X-4917-523-3	MOTOR (SLED) ASSY			
M102	X-4917-504-1	MOTOR (SPINDLE) ASSY			
M191	A-4604-363-A	MOTOR (L) ASSY			
S1301	⚠1-572-267-61	SWITCH, PUSH (AC POWER) (1 KEY)			
T1301	⚠1-450-595-11	TRANSFORMER, POWER			
		ACCESSORY & PACKING MATERIAL			
	2-181-754-01	COVER, BATTERY			
	1-465-358-21	REMOTE COMMANDER (RM-S130)			
	1-501-369-11	ANTENNA (IT)			
	1-501-374-11	ANTENNA, LOOP			
	3-753-174-71	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (AEP)			
	3-753-174-81	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN)			
	4-921-934-01	SHEET, PROTECTION			
*	4-944-236-01	INDIVIDUAL CARTON			
*	4-945-026-01	CUSHION			

HARDWARE LIST

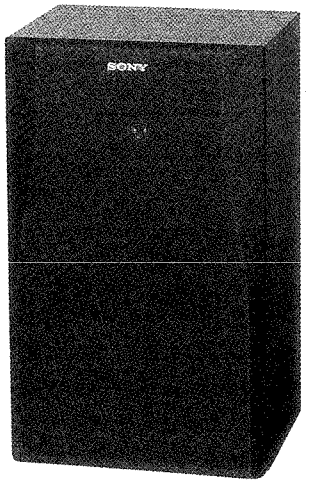
# 1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S
# 2	7-685-133-19	SCREW +P 2.6X6 TYPE2
# 3	7-621-775-20	SCREW +B 2.6X5
# 4	7-685-135-19	SCREW +BTP 2.6X10 TYPE2 N-S
# 5	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT
# 6	7-623-921-01	RING, RETAINING, CAPSTAN
# 8	7-688-001-01	W 2, SMALL
# 9	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S
#10	7-682-547-04	SCREW +BVTT 3X6 (S)
#11	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S
#13	7-621-775-10	SCREW +B 2.6X4
#14	7-621-255-15	SCREW +P 2X3
#15	7-621-849-00	SCREW, TAPPING

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

SS-A105

SERVICE MANUAL

AEP Model
UK Model



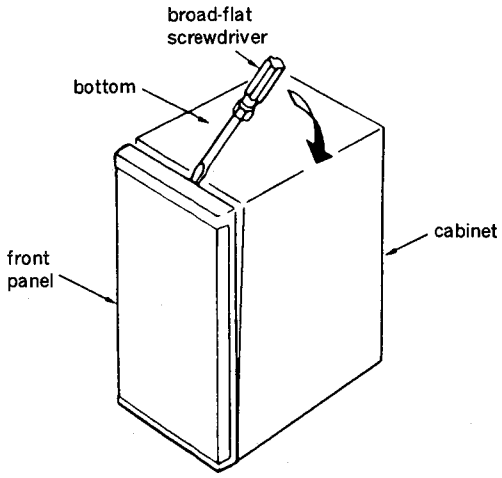
This set is the speaker system in LBT-D105.

SPECIFICATIONS

Speaker system	2-way
Speaker units	Woofer : 16cm cone type
	Tweeter: 6cm cone type
Power handling capacity	
	Maximum input power 60W
Sensitivity	88dB/W/m
Frequency range	55-20,000 Hz
Rated impedance	6 ohms
Dimensions	Approx. 230x381x195mm(w/h/d)
Weight	Approx. 3.7 kg

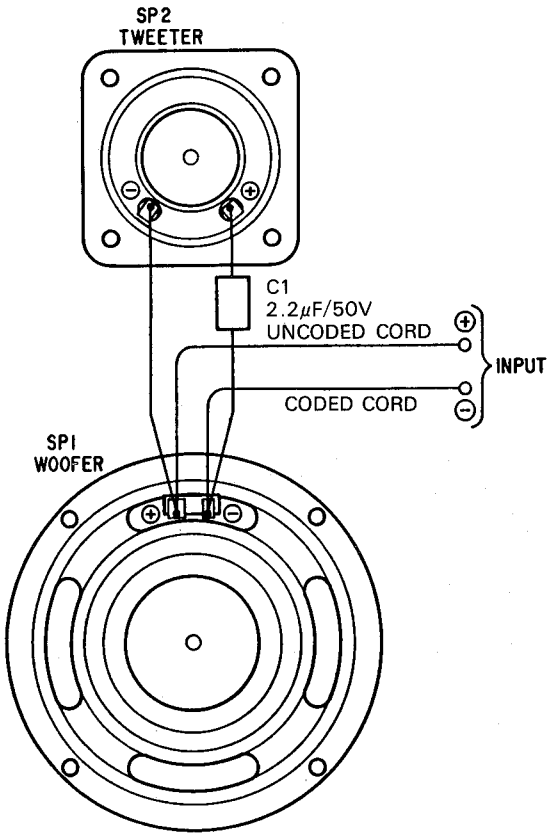
Design and specifications subject to change without notice.

1. FRONT PANEL REMOVAL



Note : Be careful not to scratch the cabinet.

2. WIRING DIAGRAM



MICROFILM

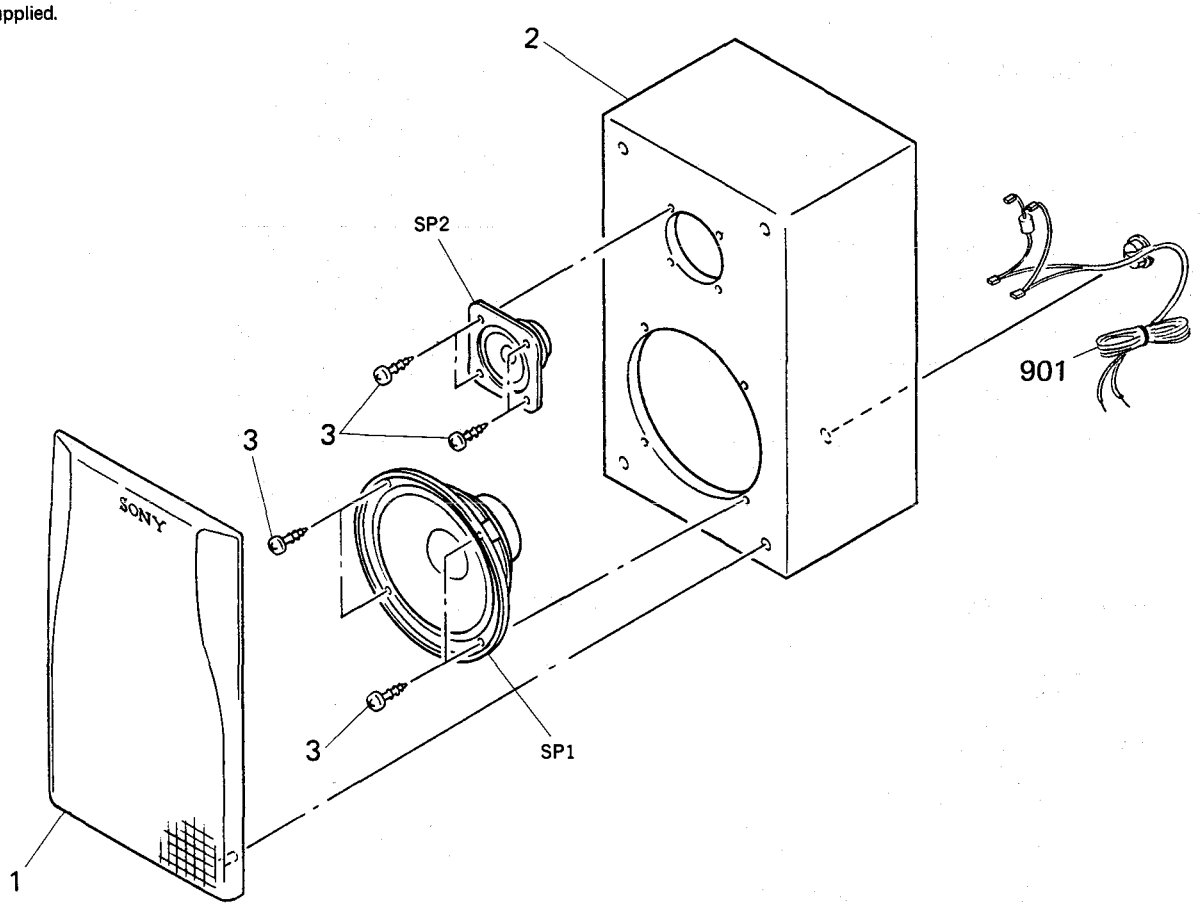
SPEAKER SYSTEM

SONY®

3. EXPLODED VIEW AND PARTS LIST

Note :

- The mechanical parts with no reference number in the exploded views are not supplied.



No.	Part No.	Description
1	T-8150-388-A	PANEL ASSY, FRONT
2	T-8151-305-1	SPEAKER BOX
3	T-8150-573-1	TAPPING SCREW +P 4X15

ELECTRICAL PARTS

No.	Part No.	Description
901	T-8150-406-A	WIRE KIT ASSY
SP1	T-8110-420-1	WOOFER
SP2	1-544-046-11	TWEETER

ACCESSORY & PACKING MATERIAL

	T-8151-345-1	MANUAL, INSTRUCTION

9-956-431-11

Sony Corporation
Audio Group

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